



Ref: APJL/MOEF&CC/TOR-AI/2016/01  
Date: 21.03.2016

To,  
The Director, IA II (T)  
Ministry of Environment, Forest & Climate Change  
Indira Paryavaran Bhawan,  
Jor Bagh Road, Aliganj New Delhi-110003

**Subject:** 1600 (2x800) MW Paraspani Thermal Power Project at Villages Paraspani, Teloliya & Telo, Tehsil Pthargama, District Godda, Jharkhand by M/s. Adani Power (Jharkhand) Ltd.- Water Feasibility report for intake of 36 MCM/Annum. –reg.

Ref: File No. IA/JH/THE/47994/2016

Dear Sir,

Our proposal for setting up of 1600 (2x800) MW Paraspani Thermal Power Project at Villages Paraspani, Teloliya & Telo, Tehsil Pthargama, District Godda, Jharkhand by M/s. Adani Power (Jharkhand) Ltd was considered during 52<sup>nd</sup> meeting on 29<sup>th</sup> Feb – 01<sup>st</sup> Mar 2016. As per the MOM available in MOEF & CC website. The Committee sought additional information regarding the water availability from Chir River.

A detailed water feasibility study has been carried out for withdrawal of **36 MCM/annum** from proposed location at Chir River. Based on the studies water availability per annum with 75% dependability and 90% dependability works out to **441.94 MCM** and **379.79 MCM** respectively.

The primary competing user of the water from the river is irrigation. The gross irrigation requirement of water is worked out as **90.97 MCM** per annum. The water drawl of 36 MCM/annum is not likely to have any significant impact on the competing users.

We here by requesting you to consider the water feasibility report for grant of TOR at the earliest

Thanking You,

For Adani Power (Jharkhand) Limited

(Santosh Kumar Singh)  
Vice President



**Encl.:** Report on Water availability at proposed withdrawal point in Chir River

Adani Power (Jharkhand) Ltd  
Sambhaav House  
Judges Bungalow Road, Bodakdev  
Ahmedabad 380 015  
Gujarat, India

Tel +91 79 2555 6900  
Fax +91 79 2555 7155  
info@adani.com  
www.adani.com

# **ADANI POWER (JHARKHAND) LIMITED**

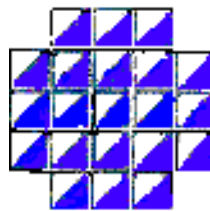
## **REPORT ON WATER AVAILABILITY AT PROPOSED WITHDRAWAL POINT IN CHIR RIVER**

**VOLUME – II**

**(REPORT & HYDROLOGICAL ANALYSIS)**

**MARCH - 2016**

by



**NANO SYSTEM CONSULTANTS PVT. LTD.**

**(An ISO 9001-2000 Certified Company)**

**Dr Fatehullah Road,**

**Roy Compound,**

**Ranchi-1**

**Tel No. – (+) 91 – 94311 14015**

**E-mail – [nano\\_ranchi@sify.com](mailto:nano_ranchi@sify.com)**

**[nano\\_ranchi@rediffmail.com](mailto:nano_ranchi@rediffmail.com)**

## **TABLE OF CONTENTS**

| <b>S. No.</b> | <b>Particulars</b>  | <b>Page Nos.</b> |
|---------------|---|------------------|
| 1             | Report  | i - x            |
| 2             | Map - 1 - Index Map showing irrigation system in Chandan - Chir - Bilasi Basin                        | xi               |
| 3             | Annexure - V - Weekly Correlation Equations   | 1 - 106          |
| 4             | Annexure - VI - Index Map Showing Catchment Area at Withdrawal Point in Chir River & Theissen Polygon | 107              |
| 5             | Annexure - VII - Weekly Rainfall, Weighted Rainfall and 75% & 90% Dependable Rainfall                 | 108 - 129        |
| 6             | Annexure - VIII - Computation of Weekly Monsoon Inflow in Chir River at Withdrawal Point              | 130 - 141        |
| 7             | Annexure - IX - Computation of Weekly Non - monsoon Inflow in Chir River at Withdrawal Point          | 142 - 158        |
| 8             | Annexure - X - 75% Water Availability at Six Weir Sites in Chir Sub Basin                             | 159 - 160        |
| 9             | Annexure - XI - Evatranspiration (Etc) Computation  | 161 - 162        |
| 10            | Annexure - XII - Gross Irrigation Requirement Calculation for the Command Areas in Weir Schemes       | 163 - 168        |
| 11            | Annexure - XIII - Simulation Study  | 169 - 170        |

## **REPORT**

### **1. Introduction: -**

M/s Adani Power (Jharkhand) Ltd. intends to install 2 x 800 MW Thermal Power Plant near village Paraspani & others in block - Pathargama, Dist. – Godda in Jharkhand. The area of proposed plant falls near North Latitude of 24°30' and East longitude of 87°19'. The estimated annual water requirement for 2 x 800 MW power plant is 36 MCM, which is proposed to be drawn from Chir River. The company proposes to construct an intake well and a gated barrage in Chir river below the confluence of Kajhia river with Chir river near Latitude of 24°56'10" N and longitude of 87°09'10" E.

### **2. Data Collection**

**Data regarding Chandan dam are enclosed in Vol-II (Annexure – I to IV) of this report.**

**Discharge data:** - Observed discharge data in Chir River is not available. Chir River is a sub-basin of Chandan – Chir – Bilasi basin and one Chandan Reservoir Scheme on Chandan River is functioning since 1970. It irrigates areas in Godda district also and its main canal intercepts many tributaries of Chir River. Daily inflow observation in Chandan dam is being done and we could procure daily observed data from 01.04.92 to 31.01.10. These data are enclosed in **Annexure - I** of this report. From these data, weekly inflow data has been computed in **Annexure – II** of this report. Therefore weekly inflow data for Chandan dam January 1993 to December 2009, that is for 17 years, is available. This long period observed inflow data are sufficient for any correlation equation.

**Rainfall data** – The rain gauge stations falling in the catchment area of Chandan dam are Deoghar and Katoria. An index map in **Annexure – III** showing the catchment area and Thiessen polygon is enclosed. The weighted area for Deoghar is 403.66 sqkms and that of Katoria is 164.49 sqkms and total catchment area comes to 568.15 sqkms.

Weekly rainfall data for Deoghar RG station from 1992 to 2013 and for Katotia from 1992 to 2011 has been procured from IMD, Pune. Rainfall data are enclosed in **Annexure – IV/1** of this report. Missing data have been filled up from adjacent RG stations. Weighted weekly rainfall data for Chandan dam has been computed in **Annexure – IV/2**. Its weekly summary has been tabulated in **Annexure – IV/3**.

**3. Index map**

One index map of Chandan- Chir – Bilasi basin showing various schemes are enclosed as Map – 1 of this report.

**4 Correlation equations**

Now, weekly inflow and weekly weighted rainfall from period 1993 to 2009 is available to derive weekly correlation equations. Non-monsoon runoff is dependent on total monsoon rainfall and October rainfall. Therefore correlation equations have been derived for monsoon months in **Annexure – V/23 to V/43** with a summary. Then, correlation equations for non monsoon months have been derived in **Annexure – V/1 to V/22 and V/44 to V/52** with a summary.

**5. Weighted weekly rainfall at Withdrawal point in Chir River: -**

Barahat, Dhoraiya RG stations in Bihar and Godda, Poraiyahat, Pathargama and Sunder Pahari RG stations in Jharkhand have been considered for calculating weekly weighted rainfall at withdrawal point in Chir River. Another Index map showing Catchment area at withdrawal point in Chir River and Thiessen polygon is enclosed in **Annexure – VI** of this report. Catchment area of Chir River at withdrawal point comes to **1213 sqkms**. Weekly rainfall data for Barahat, Dhoraiya RG stations in Bihar and Godda, Poraiyahat, Pathargama and Sunder Pahari RG stations in Jharkhand have been procured from IMD, Pune. Rainfall data are enclosed in **Annexure – VII/1** of this report. Missing data have been filled up from adjacent RG stations. Weighted weekly rainfall data for Withdrawal point in Chir River has been computed in **Annexure – VII/2**. Its weekly summary has been tabulated in **Annexure – VII/3**. 75% dependable weighted rainfall comes to 887.23 mm and on 90% dependability 787.62 mm.

**6. Computation of Weekly inflow in Chir River at Withdrawal point**

Both Chandan and Chir River originates from same hill range and catchment characteristics are almost similar. But rainfall is less compared to Chandan dam. Therefore with correlation equations derived in **Annexure – V (1-52)** and weekly rainfall at withdrawal point in Chir River computed in **Annexure – VII/3**, Chir river inflow has been computed in **Annexure – VIII/1** for monsoon period and their summary in **Annexure – VIII/2**. Similarly inflow in Chir river for non monsoon period has been computed in **Annexure – IX/1** and their summary in **Annexure – IX/2**.

75% and 90% dependable inflow comes as 764.89 MCM and 657.33 MCM respectively.

**7. Water availability as per Bihar Second Irrigation commission report**

Bihar Second irrigation commission has reported the availability of water as 36.40 cms of water spread over the entire area of Chandan-Chir – Bilasi basin. Whereas as per Annexure – IX/2, total runoff for 1213 sqkms catchment comes to 764.89 MCM. This comes as 63 cms. Though 36.40 cms is a rough figure, but as it has been based on Chandan dam discharge only and therefore some ambiguity appears. On enquiry from field officers, it has come to notice that dam has silted up by 52% as per CWC study. Therefore spillage of water through dam is more. In view of the above, to be on safer side, we have reduced the inflow in Chir River by a factor (36.40 / 63.00). **Therefore 75% availability will come to 441.94 MCM and 90% dependability will come to 379.79 MCM**

**8. Upstream and Downstream uses in Chir sub- basin**

**Chandan High Level Canal: -**

Chandan High Level canal has a length of 105.60 kms, out of which 36.30 kms falls in Banka district in Bihar and rest 69.30 kms falls in Godda District of Jharkhand State. The canal intercepts the water through weirs constructed on six streams en-route. These streams are tributaries of Chir River. Out of six weirs only Sukhania at km 22.4 and Dakai at km. 34.96 fall in Bihar. Rest of weirs are in Jharkhand state. The catchment area intercepted by the six weirs across Chandan High Level Canal are as under: -

| <b>S.No</b> | <b>Head Work</b>   | <b>Catchment area intercepted (sqkms)</b> |
|-------------|--------------------|---|
| 1           | Sukhania Weir      | 52.0                                      |
| 2           | Dakai Weir         | 80.0                                      |
| 3           | Tribeni Weir       | 207.0                                     |
| 4           | Kajhia Weir        | 183.0                                     |
| 5           | Harna (South) Weir | 48.0                                      |
| 6           | Harna (North) Weir | 81.0                                      |
|             | <b>Total</b>       | <b>651</b>                                |

**Command area**

The gross, culturable and Kharif command area of weirs are as under:-

| <b>S. No</b> | <b>Canal system</b>  | <b>GCA in Ha</b> | <b>CCA in Ha</b> | <b>Kharif area in Ha</b> |
|--------------|--|------------------|------------------|--------------------------|
|              | <b>Chandan High Level Canal</b>  |                  |                  |                          |
| 1            | Between Sukhania & Dakai   | 2702             | 1891             | 1356                     |
| 2            | Between Dakai & Triveni  | 596              | 417              | 315                      |
| 3            | Between Triveni & Kajhia   | 10053            | 7037             | 5026                     |
| 4            | Between Kajhia & Harna I & II  | 6219             | 4353             | 3109                     |
| 5            | Between Harna II & Sunder  | 14121            | 9885             | 7061                     |
| 6            | From Simaria – Gorgama Embankment and Sonhaua Weir scheme – D/s of withdrawal site | 2834             | 2409             | 2024                     |
|              | <b>Total</b>   | <b>36525</b>     | <b>25992</b>     | <b>18891</b>             |

**9. 75% water availability at weir sites on catchment area proportion basis: -**

75% dependable inflow has been computed in Chir River at withdrawal point in Annexure – IX/2. Water availability at weirs have been computed on catchment area proportion basis in **Annexure –X** of this report.

**10. Water requirement at weir sites: -**

Crop water requirement has been computed based on modified Penmen's method. Generally paddy crops are grown in the command of all weir schemes during Kharif period.

**10.1 Crop Water Requirement (ETc): -**

Bhagalpur is the nearest metrological centre for metrological data. Bihar Second Irrigation Commission (1994) has 70 yrs average data in their report in volume-II. ETc has been computed on basis of these data and are enclosed as **Annexure – XI** of this report.

**10.2 Net Irrigation Requirement: -**

Net Irrigation requirement at the field is given by  

$$NIR = Kc \cdot ETo + \text{Special Water Requirement} - \text{Effective rainfall.}$$
Here NIR = Net Irrigation Requirement in the period  
Kc = Crop Coefficient  
ETo = Reference evapotranspiration

**10.3 Special water requirement: -**

The quantity of water which is, though not directly required to meet the evapotranspiration need of a crop, but is essential for the growth

of a crop, is known as special requirement. This includes water required for land preparation, puddling, percolation losses, leaching and so on either before or after sowing. For the present study the provisions of water on this account has been considered as below:-

#### **10.4 Land preparation: -**

Land Preparation of the field like puddling becomes necessary before transplanting of paddy. Hence, an additional water supply is often required for this purpose in addition to pre sowing irrigation for the nursery bed, which is often taken into account for 1/10th of the actual cropping area for paddy. Therefore, an additional water requirement of 120 mm for transplantation of paddy crop.

#### **10.5 Percolation loss: -**

Paddy crops being a water loving crop, needs some standing water in the field, which increases the percolation losses. In case of heavy soil and shallow depth of water table, percolation rate is generally low at about 1 to 2 mm per day, whereas it as high as 10 mm per day or more in case of coarse textured soils and deeper depth of water ( i.e. about 2.0 meter or more). However, according the Report of the Second Irrigation Commission, GOI (1972), the fields having percolation losses more than 5 mm per day should not be considered suitable for paddy cultivation. No actual data on rate of percolation loss for the terrain under consideration is readily available. The soil of the command area is heavy textured. Taking into consideration the values adopted in similar adjacent basins, a value of 3 mm per day for percolation losses in the paddy field is considered to be appropriate.

#### **10.6 Dry out period: -**

Irrigation is not considered necessary in the last fortnight for any crop other than vegetables. In case of paddy, irrigation is necessary up to the ripening period. In consideration of these facts, a dry out period of 14 days for paddy and 10 days for other crops, during which no irrigation is taken into account for assessment of net irrigation requirement.

#### **11. EFFECTIVE RAINFALL: -**

Effective rainfall has been calculated from mean annual rainfall, according to FAO guidelines on Irrigation and Drainage paper-56, which being adopted in this country.



## 12. GROSS IRRIGATION REQUIREMENT: -

### Irrigation Efficiency: -

A large quantity of water diverted at head works of a canal system is lost through seepage and surface water evaporation of the conveyance system while flowing from the canal head works to the field. Again, in the field also, there are losses of water in the form of percolation losses below root zone of crops in the water handling process by the farmers. The loss of water through the conveyance system comprising of main canals, branches, distributaries, minors and water courses are termed as conveyance loss and the losses of water in the field is termed as field application loss. Thus the irrigation efficiency comprises of: -

- i. Field application efficiency
- ii. Conveyance efficiency

The field application efficiency for ponded crop is high and for the present study, field application efficiency as 85% for ponded crops has been taken.

Therefore the project irrigation efficiency for ponded crop (Paddy): -

$$EP \text{ (Ponded)} = EFA. (EFC. EWC.) (EM. EDISTY. ECANALS)$$

Here EP = Project efficiency

EFA = Field application efficiency

EWC = Efficiency of water course

EM = Efficiency of minor

EDISTY = Efficiency of distributions

ECANALS = Efficiency of branch and main canals

$$\begin{aligned} &= 0.85 \times (0.95 \times 0.93) \cdot (0.92 \times 0.95) \\ &= 0.657 \end{aligned}$$

### Gross Irrigation Requirement (GIR) at the Canal Head: -

Gross Irrigation Requirement (GIR) at Canal Head is required to know the quantity of discharge to be diverted in the canal system and to design the capacity of the diversion system accordingly. The GIR at the canal head works for ponded crops will be given by:

$$\begin{aligned} \text{GIR for ponded crop} &= \text{NIR} / \text{Project efficiency for ponded condition} \\ &= \text{NIR} / 0.657 \\ &= 1.522 \text{ NIR} \end{aligned}$$

Using the values of NIR, and the expressions arrived above, the values of gross irrigation requirement (GIR) have been worked out as 90.97 MCM per year as in **Annexure – XII/1 to XII/6**

**13. Simulation Study – Water availability Vrs Water requirement: -**

Water available at weir sites are diverted for Kharif irrigation. But river discharge varies from period to period and therefore water flows down the weirs in many periods. These water goes in Chir river. It has already been mentioned that Chandan High Level canal intercepts the water through weirs constructed on six streams en-route. Therefore, whenever river discharge is less than the required additional water is diverted from Chandan dam through Chandan High Level Canal. In such situation, it was considered essential to compute water availability at weir sites and irrigation requirement through these weirs. This exercise has been done in Annexure – X and XII of this report.

The water availability at Withdrawal site in Chir River for free catchment of 661 sqkms has also been computed in Annexure – X of this report. But Chir River will get additional water also from weirs in upstream. This should be added in the above computed water availability. One more weir scheme known as Sonhaua weir scheme is existing in the downstream. The withdrawal point has been selected at a location, where both side embankments are constructed. These embankments continue upto Sonhaua weir and therefore, it will receive any water from additional catchment. Therefore water for this scheme has to come from upstream. Thus a simulation study is required for assessment of above factors. This simulation study has been done in **Annexure – XIII** of this report.

**14 Proposed Water withdrawal by M/s Adani Power (Jharkhand) Limited: -**

M/s Adani Power (Jharkhand) Limited requirement is 36 MCM annually. It is reported that Government of Jharkhand is allowing withdrawal from any river in monsoon period only, i.e., from June to October. Therefore following weekly withdrawal pattern is suggested: -

| <b>Sl. No.</b> | <b>Week No.</b> | <b>Water available at withdrawal site in Ham</b> | <b>Water demand by M/s Adani Power (Jharkhand) Limited in Ham</b> | <b>Remarks</b> |
|----------------|-----------------|--|---|----------------|
| <b>1</b>       | <b>2</b>        | <b>3</b>   | <b>4</b>  | <b>5</b>       |
| 1              | 1st             | 578.75   |   |                |
| 2              | 2nd             | 616.39   |   |                |
| 3              | 3rd             | 496.34   |   |                |
| 4              | 4th             | 545.43   |   |                |
| 5              | 5th             | 285.88   |   |                |
| 6              | 6th             | 1053.80  |   |                |
| 7              | 7th             | 364.10   |   |                |
| 8              | 8th             | 233.66   |   |                |
| 9              | 9th             | 470.42   |   |                |
| 10             | 10th            | 470.27   |   |                |
| 11             | 11th            | 399.49   |   |                |
| 12             | 12th            | 270.52   |   |                |
| 13             | 13th            | 188.39   |   |                |
| 14             | 14th            | 137.87   |   |                |
| 15             | 15th            | 129.76   |   |                |
| 16             | 16th            | 177.41   |   |                |
| 17             | 17th            | 146.84   |   |                |
| 18             | 18th            | 50.70  |   |                |
| 19             | 19th            | 91.70  |   |                |
| 20             | 20th            | 90.31  |   |                |
| 21             | 21st            | 139.70   |   |                |
| 22             | 22nd            | 584.74   |   |                |
| 23             | 23rd            | 265.50   |   |                |
| 24             | 24th            | 290.58   |   |                |
| 25             | 25th            | 964.68   | 100   |                |
| 26             | 26th            | 1138.86  | 200   |                |
| 27             | 27th            | 569.80   | 200   |                |
| 28             | 28th            | 648.59   | 200   |                |
| 29             | 29th            | 652.39   | 200   |                |
| 30             | 30th            | 880.67   | 200   |                |
| 31             | 31st            | 1137.85  | 200   |                |
| 32             | 32nd            | 2061.58  | 300   |                |
| 33             | 33rd            | 3645.85  | 300   |                |

|           |              |                 |             |  |
|-----------|--------------|-----------------|-------------|--|
| <b>34</b> | 34th         | 1676.69         | 300         |  |
| <b>35</b> | 35th         | 363.80          | 200         |  |
| <b>36</b> | 36th         | 772.69          | 200         |  |
| <b>37</b> | 37th         | 830.13          | 200         |  |
| <b>38</b> | 38th         | 1366.59         | 200         |  |
| <b>39</b> | 39th         | 4285.40         | 200         |  |
| <b>40</b> | 40th         | 633.19          | 100         |  |
| <b>41</b> | 41st         | 1978.26         | 100         |  |
| <b>42</b> | 42nd         | 1437.46         | 100         |  |
| <b>43</b> | 43rd         | 393.93          | 100         |  |
| <b>44</b> | 44th         | 1140.58         |             |  |
| <b>45</b> | 45th         | 1067.08         |             |  |
| <b>46</b> | 46th         | 897.42          |             |  |
| <b>47</b> | 47th         | 142.66          |             |  |
| <b>48</b> | 48th         | 106.96          |             |  |
| <b>49</b> | 49th         | 157.11          |             |  |
| <b>50</b> | 50th         | 202.29          |             |  |
| <b>51</b> | 51st         | 196.82          |             |  |
| <b>52</b> | 52nd         | 924.44          |             |  |
|           | <b>Total</b> | <b>38352.30</b> | <b>3600</b> |  |

Therefore there is sufficient water in river during monsoon for withdrawal for proposed Power Plant.

**15. Proposed withdrawal system: -**

One intake well is proposed to be constructed in Chir River at withdrawal site to withdraw water from river. This is a rainfed river and during monsoon also the depth of water becomes too less for high duty pumps to operate. Therefore some structure across the river needs to be constructed, so that required depth of water is available throughout the monsoon period. High embankments are constructed in both banks of the river, as it floods the area during monsoon. Therefore we are proposing a gated barrage in the downstream of intake well. The top level of the gate will be limited to the HFL, on which embankments are constructed. During flood period all gates shall remain open, so that free board of embankments are not encroached. But when ever discharge becomes less, gates shall be partially closed, so that water level may rise for pumps to operate.

The department is allowing withdrawal in five months only and therefore, requirements for seven months with evaporation and

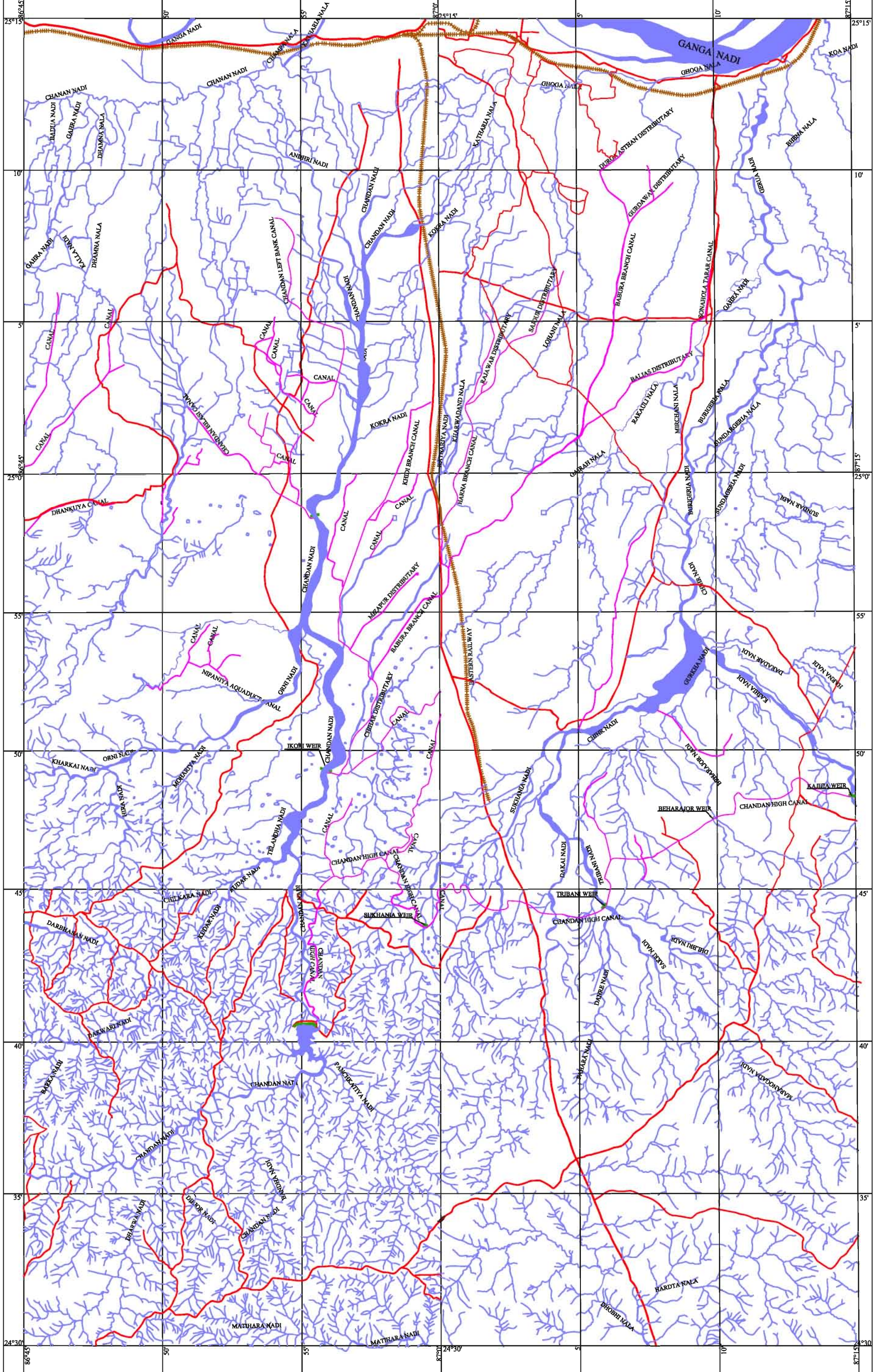
seepage loss will need storage facilities. A partial requirement may be met by storing the October flow within two embankments constructed on both banks of the river. In such case, gate operation becomes very essential for the safety of embankments. The company will permanently establish a camp near intake well with security arrangements and work force shall camp there in shifts, so that no laps come in the timely operation of gates. The gates shall be manually and electrically operated with backup generators.

Therefore, permission may be granted for withdrawal of 36 MCM of water annually from Chir River at Latitude of 24°56'10" N and longitude of 87°09'10" E and construction of intake well and gated barrage across Chir River.

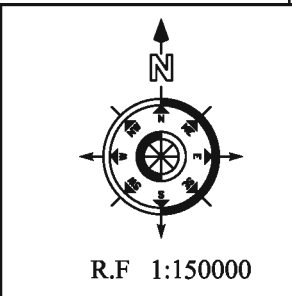
For M/s Nano System Consultants Pvt. Ltd.

(P. N. Sinha)  
C.M.D.





| S.No | LEGEND       |
|------|--------------|
| 1.   | NADI         |
| 2.   | ROADS        |
| 3.   | NALAS        |
| 4.   | CANAL        |
| 5.   | RAILWAY LINE |
| 6.   | PONDS        |



ORIGINAL SCALE 50000  
 PRINT SCALE 1:3 (A1)

|                   |                  |
|-------------------|------------------|
| 72 $\frac{K}{16}$ | 72 $\frac{O}{4}$ |
| 72 $\frac{L}{13}$ | 72 $\frac{P}{1}$ |
| 72 $\frac{L}{14}$ | 72 $\frac{P}{2}$ |

AP(J)L, PARASPANI TPP  
 INDEX MAP  
 SHOWING SCHEMES IN CHANDAN - CHIR  
 BILASI BASIN  
 PREPARED BY  
 NANO SYSTEM CONSULTANTS PVT.LTD. RANCHI



**No. G45V1**

Scale 1:50,000

|   |   |  |
|---|---|--|
| G45O16<br>(72K/16)                        | Bhagalpur<br>BIHAR<br>G45P4<br>(72P/4)  | G45P8<br>(72O/8)                       |
| G45U13<br>(72L/13)<br>BANKA<br>BIHAR      | <b>G45V1</b><br>(72P/1)                 | G45V5<br>(72P/5)<br>GODDA<br>JHARKHAND |
| G45U74<br>(72L/14)<br>DUMKIA<br>JHARKHAND | G45V2<br>(72P/2)<br>DUMKIA<br>JHARKHAND | G45V6<br>(72P/6)                       |

1 Sahibganj, JHARKHAND.  
 2 Patkur, JHARKHAND.

भारतीय सर्वेक्षण विभाग SURVEY OF INDIA

1st Edition 2010. Price: ₹ 70/-

**CONVENTIONAL SYMBOLS**

|   |  |
|---|--|
| Express Highway: with toll; with bridge; with distance stone      |  |
| Roads, main roads: according to importance                        |  |
| Roads, double cartway: according to importance                    |  |
| Unmetalled road: Cart-track, Pack-track with pass. Foot-path      |  |
| Streams: masonry or rock-filled; earthwork. Weir                  |  |
| River: dry with water channel; with island & rocks. Tidal river   |  |
| Submerged rocks. Shoal. Swamp. Island                             |  |
| Wells: lined; unlined. Tube-well. Spring. Tanks: perennial; dry   |  |
| Embankments: road or rail; bank. Broken ground                    |  |
| Railways, broad gauge: double; single with station; under constr. |  |
| Railways, other gauges: double; single with distance stone; do    |  |
| Mineral line or tramway. Kils. Cutting with tunnel                |  |
| Contours with sub-features. Rocky slopes. Cliffs                  |  |
| Sand features: (Wind-blown-hills, dunes, etc.) (Dunes/rolling)    |  |
| Towns or Villages: inhabited; deserted. Fort                      |  |
| Huts: permanent; temporary. Tower. Antiquities                    |  |
| Temple. Chhatri. Church. Mosque. Light. Tomb. Grave               |  |
| Lighthouses. Lightship. Buoy: lighted; unlighted. Anchorage       |  |
| Mine. Vite on traffic. Grass. Plantain                            |  |
| Palms: palmyra; other. Plantain. Conifer. Bamboo. Other trees     |  |
| Areas: cultivated; wooded. Surveyed tree                          |  |
| Boundary: international   |  |
| state: demarcated; undemarcated                                   |  |
| district: subdivision, taluk or thak; forest                      |  |
| Boundary pillars: surveyed; unlocated                             |  |
| Height: triangulated station; point; approximate                  |  |
| Bench-mark: geodetic; tertiary; canal                             |  |
| Post office. Telegraph office. Overhead tank                      |  |
| Rest house or inspection bungalow. Circuit house. Police station  |  |
| Camping ground. Forest: reserved; protected                       |  |
| Speed means: administrative; locality or strid                    |  |
| Hospital. Dispensary. Veterinary Hospital/Dispensary              |  |
| Aerodrome. Helipad. Tourist etc.                                  |  |
| Power line: with pylons surveyed; with poles unsurveyed           |  |

**REFERENCES**  
 ER Eastern Railway PWD Public Works Department

**NOTES**  
 A relative height, -ft., represents the approximate height, in metres, between the top and bottom of a steep slope.  
 The state boundary between Bihar and Jharkhand States has been entered as per information provided in the Bihar Reorganisation Act, 2006, but has not been verified by the Government concerned.  
 The kilometre stone numbers along roads and railways are shown in short type e.g., 5/2 whereas milestone numbers are shown in upright type e.g., 5.

**COMPILED INDEX**  
 A Surveyed during 1952-63. Updated for major details during 2008-09.

**Projection - UTM Datum - WGS 84**  
 Magnetic Variation from True North about 1/4° West in 2005.  
 (Annual change negligible).

Scale: 1:50,000  
 500 m to 1 cm  
 2 cm to 1 km

For further details about this map, please contact  
 Director  
 Bihar Geo-Spatial Data Centre  
 Survey of India, 184, Sheikhpura House, Sheikhpura  
 Patna - 800014.  
 Fax: 0612-2280265

WEBSITE - www.surveyofindia.gov.in

Reproduction in whole or part by any means is prohibited without the written permission of Survey of India, the National Mapping Agency.

GOVERNMENT OF INDIA COPYRIGHT, 2010.





WEEKLY CORRELATION EQUATION FOR 01<sup>st</sup> WEEK (01 TO 07 JAN) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II

| SL No. | Year         | 01 <sup>st</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$          | $x_1x_2$         | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|----------------|-----------------|------------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |                |                 |                  |                  |                      |                  |                      |                  |                      |
| 1      | 1993         | 0.00                                | 41.69                 | 303.96                      | 1737.83         | 92389.47          | 0.00           | 0.00            | 12671.12         | -2.05            | 4.20                 | -34.81           | 1212.00              | -52.55           | 2761.34              |
| 2      | 1994         | 0.49                                | 62.93                 | 214.68                      | 3959.96         | 46089.36          | 31.07          | 105.99          | 13509.69         | -1.56            | 2.42                 | -13.57           | 184.22               | -141.82          | 20113.06             |
| 3      | 1995         | 1.19                                | 31.34                 | 283.23                      | 982.00          | 80218.24          | 37.22          | 336.37          | 8875.48          | -0.86            | 0.74                 | -45.16           | 2039.81              | -73.28           | 5369.46              |
| 4      | 1996         | 1.48                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 73.27          | 511.31          | 17003.22         | -0.57            | 0.32                 | -27.14           | 736.60               | -12.04           | 144.87               |
| 5      | 1997         | 0.69                                | 45.39                 | 399.82                      | 2060.32         | 159856.24         | 31.35          | 276.14          | 18148.13         | -1.36            | 1.85                 | -31.11           | 967.86               | 43.32            | 1876.22              |
| 6      | 2001         | 4.95                                | 208.98                | 469.85                      | 43670.72        | 220758.88         | 1033.46        | 2323.59         | 98187.06         | 2.90             | 8.39                 | 132.47           | 17549.43             | 113.34           | 12847.09             |
| 7      | 2002         | 2.82                                | 58.89                 | 281.02                      | 3468.47         | 78973.41          | 166.37         | 793.86          | 16550.44         | 0.78             | 0.60                 | -17.61           | 310.02               | -75.48           | 5697.65              |
| 8      | 2003         | 4.43                                | 121.37                | 385.51                      | 14730.73        | 148620.46         | 537.80         | 1708.24         | 46789.82         | 2.38             | 5.67                 | 44.87            | 2013.23              | 29.01            | 841.49               |
| 9      | 2004         | 2.96                                | 108.18                | 486.42                      | 11702.86        | 236608.52         | 320.01         | 1438.90         | 52621.26         | 0.91             | 0.83                 | 31.68            | 1003.54              | 129.92           | 16879.04             |
| 10     | 2007         | 3.45                                | 61.16                 | 580.69                      | 3740.89         | 337205.07         | 211.19         | 2005.05         | 35516.85         | 1.40             | 1.97                 | -15.34           | 235.26               | 224.19           | 50260.60             |
| 11     | 2008         | 1.95                                | 49.13                 | 341.18                      | 2413.42         | 116403.44         | 95.92          | 666.12          | 16760.96         | -0.10            | 0.01                 | -27.37           | 749.37               | -15.33           | 234.87               |
| 12     | 2009         | 0.17                                | 79.60                 | 187.22                      | 6336.37         | 35050.59          | 13.75          | 32.34           | 14902.81         | -1.88            | 3.52                 | 3.10             | 9.61                 | -169.29          | 28658.03             |
|        | <b>Total</b> | <b>24.59</b>                        | <b>918.01</b>         | <b>4278.06</b>              | <b>97240.05</b> | <b>1670832.32</b> | <b>2551.40</b> | <b>10197.92</b> | <b>351536.86</b> | <b>0.00</b>      | <b>30.52</b>         | <b>0.00</b>      | <b>27010.97</b>      | <b>0.00</b>      | <b>145683.72</b>     |
| n = 12 | <b>Mean</b>  | <b>2.05</b>                         | <b>76.50</b>          | <b>356.50</b>               | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$          | $x_1x_2$         | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |



Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $24.59 = 12.00 a + 918.01 b + 4278.06 c$

or  $2.05 = a + 76.50 b + 356.50 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$2551.40 = 76.50 a + 97240.05 b + 351536.86 c$

$33.35 = a + 1271.09 b + 4595.19 c$  Eq-2

or  $31.30 = 1194.59 b + 4238.68 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$10197.92 = 4278.06 a + 351536.86 b + 1670832.32 c$

$2.38 = a + 82.17 b + 390.56 c$  Eq-4

$33.35 = a + 1271.09 b + 4595.19 c$  Eq-2

or  $30.97 = 1188.92 b + 4204.63 c$  Eq-5(Eq-2-Eq-4)

$31.12 = 1194.59 b + 4224.68 c$

$31.30 = 1194.59 b + 4238.68 c$  (Eq-3)

or  $-0.19 = -14.00 c$

or  $c = 0.0133$

$b = -0.0211$

$a = -1.0888$

$y = -1.0888 - 0.0211 x_1 + 0.0133 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.7379$

$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.6783$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.3867$

$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.8684$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 1.67$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 49.55$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 115.08$

**ANNEXURE -V/2**

**WEEKLY CORRELATION EQUATION FOR 02<sup>nd</sup> WEEK (08 TO 14 JAN) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE -II**

| SL No. | Year         | 02 <sup>nd</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$          | $x_1x_2$         | $y-y_{\bar{y}}$     | $(y-y_{\bar{y}})^2$     | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|----------------|-----------------|------------------|---------------------|-------------------------|---------------------|-------------------------|---------------------|-------------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |                |                 |                  |                     |                         |                     |                         |                     |                         |
| 1      | 1993         | 0.43                                | 41.69                 | 303.96                      | 1737.83         | 92389.47          | 17.80          | 129.80          | 12671.12         | -2.49               | 6.18                    | -37.04              | 1372.02                 | -118.83             | 14121.21                |
| 2      | 1996         | 0.66                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 32.46          | 226.51          | 17003.22         | -2.26               | 5.09                    | -29.37              | 862.44                  | -78.32              | 6134.09                 |
| 3      | 2000         | 3.35                                | 31.14                 | 564.93                      | 969.94          | 319145.49         | 104.22         | 1890.56         | 17594.07         | 0.43                | 0.19                    | -47.58              | 2264.26                 | 142.14              | 20203.94                |
| 4      | 2001         | 4.16                                | 208.98                | 469.85                      | 43670.72        | 220758.88         | 868.35         | 1952.36         | 98187.06         | 1.24                | 1.54                    | 130.25              | 16964.38                | 47.06               | 2214.72                 |
| 5      | 2003         | 1.12                                | 121.37                | 385.51                      | 14730.73        | 148620.46         | 136.51         | 433.60          | 46789.82         | -1.79               | 3.20                    | 42.64               | 1818.36                 | -37.28              | 1389.49                 |
| 6      | 2004         | 3.37                                | 108.18                | 486.42                      | 11702.86        | 236608.52         | 365.09         | 1641.60         | 52621.26         | 0.46                | 0.21                    | 29.45               | 867.41                  | 63.64               | 4049.43                 |
| 7      | 2006         | 6.91                                | 36.67                 | 563.66                      | 1344.86         | 317709.95         | 253.41         | 3894.91         | 20670.61         | 4.00                | 15.98                   | -42.06              | 1768.69                 | 140.87              | 19843.96                |
| 8      | 2007         | 6.39                                | 61.16                 | 580.69                      | 3740.89         | 337205.07         | 390.60         | 3708.45         | 35516.85         | 3.47                | 12.07                   | -17.57              | 308.54                  | 157.90              | 24933.84                |
| 9      | 2008         | 2.60                                | 49.13                 | 341.18                      | 2413.42         | 116403.44         | 127.83         | 887.78          | 16760.96         | -0.31               | 0.10                    | -29.60              | 876.25                  | -81.61              | 6660.13                 |
| 10     | 2009         | 0.14                                | 79.60                 | 187.22                      | 6336.37         | 35050.59          | 11.39          | 26.80           | 14902.81         | -2.77               | 7.67                    | 0.87                | 0.76                    | -235.57             | 55493.71                |
|        | <b>Total</b> | <b>29.13</b>                        | <b>787.28</b>         | <b>4227.89</b>              | <b>89084.09</b> | <b>1942550.51</b> | <b>2307.67</b> | <b>14792.37</b> | <b>332717.79</b> | <b>0.00</b>         | <b>52.22</b>            | <b>0.00</b>         | <b>27103.09</b>         | <b>0.00</b>         | <b>155044.51</b>        |
| n = 10 | <b>Mean</b>  | <b>2.91</b>                         | <b>78.73</b>          | <b>422.79</b>               | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$          | $x_1x_2$         | $y_1-y_{\bar{y}_1}$ | $(y_1-y_{\bar{y}_1})^2$ | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = a n + b \sum x_1 + c \sum x_2$$

or  $29.13 = 10.00 a + 787.28 b + 4227.89 c$

or  $2.91 = a + 78.73 b + 422.79 c$  Eq-1

$$\sum yx_1 = a \sum x_1 + b \sum x_1^2 + c \sum x_1 x_2$$

$2307.67 = 78.73 a + 89084.09 b + 332717.79 c$

$29.31 = a + 1131.54 b + 4226.17 c$  Eq-2

or  $26.40 = 1052.81 b + 3803.38 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a \sum x_2 + c \sum x_2^2 + b \sum x_1 x_2$$

$14792.37 = 4227.89 a + 332717.79 b + 1942550.51 c$

$3.50 = a + 78.70 b + 459.46 c$  Eq-4

$29.31 = a + 1131.54 b + 4226.17 c$  Eq-2

or  $25.81 = 1052.85 b + 3766.71 c$  Eq-5(Eq-2-Eq-4)

$25.81 = 1052.81 b + 3766.59 c$

$26.40 = 1052.81 b + 3803.38 c$  (Eq-3)

or  $-0.59 = -36.79 c$

or  $c = 0.0160$

$b = -0.0326$

$a = -1.2686$

$y = -1.2686 - 0.0326 x_1 + 0.016 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y} \bar{x}_1)}{(n-1) \sigma_y \sigma_{x_1}} = 0.0122$

$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y} \bar{x}_2)}{(n-1) \sigma_y \sigma_{x_2}} = 0.8707$

$R_{x_1 x_2} = \frac{\sum(x_1 x_2) - n(\bar{x}_1 \bar{x}_2)}{(n-1) \sigma_{x_1} \sigma_{x_2}} = -0.0021$

$R_{yx_1 x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.8708$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 2.41$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 54.88$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 131.25$

WEEKLY CORRELATION EQUATION FOR 03<sup>rd</sup> WEEK (15 TO 21 JAN) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II

| SL No. | Year         | 03 <sup>rd</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$          | $x_1x_2$         | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|----------------|-----------------|------------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |                |                 |                  |                  |                      |                  |                      |                  |                      |
| 1      | 1993         | 1.84                                | 41.69                 | 303.96                      | 1737.83         | 92389.47          | 76.55          | 558.16          | 12671.12         | -1.46            | 2.13                 | -30.45           | 926.95               | -147.82          | 21850.45             |
| 2      | 1996         | 3.76                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 185.66         | 1295.66         | 17003.22         | 0.47             | 0.22                 | -22.77           | 518.58               | -107.31          | 11514.73             |
| 3      | 1999         | 5.48                                | 143.03                | 759.71                      | 20456.69        | 577163.06         | 784.13         | 4165.04         | 108659.32        | 2.19             | 4.78                 | 70.89            | 5025.92              | 307.94           | 94825.29             |
| 4      | 2000         | 3.89                                | 31.14                 | 564.93                      | 969.94          | 319145.49         | 121.19         | 2198.25         | 17594.07         | 0.60             | 0.35                 | -40.99           | 1680.13              | 113.15           | 12803.89             |
| 5      | 2003         | 2.18                                | 121.37                | 385.51                      | 14730.73        | 148620.46         | 264.88         | 841.36          | 46789.82         | -1.11            | 1.24                 | 49.24            | 2424.29              | -66.26           | 4390.66              |
| 6      | 2004         | 3.18                                | 108.18                | 486.42                      | 11702.86        | 236608.52         | 343.67         | 1545.28         | 52621.26         | -0.12            | 0.01                 | 36.05            | 1299.36              | 34.65            | 1200.54              |
| 7      | 2006         | 5.54                                | 36.67                 | 563.66                      | 1344.86         | 317709.95         | 203.10         | 3121.63         | 20670.61         | 2.24             | 5.03                 | -35.46           | 1257.47              | 111.88           | 12517.65             |
| 8      | 2007         | 3.91                                | 61.16                 | 580.69                      | 3740.89         | 337205.07         | 238.89         | 2268.07         | 35516.85         | 0.61             | 0.37                 | -10.97           | 120.35               | 128.92           | 16619.92             |
| 9      | 2008         | 3.04                                | 49.13                 | 341.18                      | 2413.42         | 116403.44         | 149.57         | 1038.76         | 16760.96         | -0.25            | 0.06                 | -23.01           | 529.31               | -110.60          | 12231.44             |
| 10     | 2009         | 0.14                                | 79.60                 | 187.22                      | 6336.37         | 35050.59          | 11.00          | 25.87           | 14902.81         | -3.16            | 9.97                 | 7.47             | 55.77                | -264.56          | 69990.56             |
|        | <b>Total</b> | <b>32.96</b>                        | <b>721.33</b>         | <b>4517.75</b>              | <b>65870.07</b> | <b>2298954.69</b> | <b>2378.64</b> | <b>17058.09</b> | <b>343190.05</b> | <b>0.00</b>      | <b>24.17</b>         | <b>0.00</b>      | <b>13838.13</b>      | <b>0.00</b>      | <b>257945.15</b>     |
| n = 10 | <b>Mean</b>  | <b>3.30</b>                         | <b>72.13</b>          | <b>451.78</b>               | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$          | $x_1x_2$         | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $32.96 = 10.00a + 721.33b + 4517.75c$

or  $3.30 = a + 72.13b + 451.78c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$2378.64 = 72.13a + 65870.07b + 343190.05c$

$32.98 = a + 913.17b + 4757.73c$  Eq-2

or  $29.68 = 841.04b + 4305.95c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$17058.09 = 4517.75a + 343190.05b + 2298954.69c$

$3.78 = a + 75.96b + 508.87c$  Eq-4

$32.98 = a + 913.17b + 4757.73c$  Eq-2

or  $29.20 = 837.21b + 4248.86c$  Eq-5(Eq-2-Eq-4)

$29.33 = 841.04b + 4268.30c$

$29.68 = 841.04b + 4305.95c$  (Eq-3)

or  $-0.35 = -37.65c$

or  $c = 0.0092$

$b = -0.0118$

$a = -0.0086$

$y = -0.0086 - 0.0118x_1 + 0.0092x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.0023$

$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.8686$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.2897$

$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.8686$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 1.64$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 39.21$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 169.29$

**ANNEXURE -V/4**

**WEEKLY CORRELATION EQUATION FOR 04<sup>th</sup> WEEK (22 TO 28 JAN) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE -II**

| SL No. | Year         | 04 <sup>th</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$          | $x_2^2$           | $yx_1$         | $yx_2$          | $x_1x_2$         | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|------------------|-------------------|----------------|-----------------|------------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                  |                   |                |                 |                  |                  |                      |                  |                      |                  |                      |
| 1      | 1993         | 3.02                                | 41.69                 | 303.96                      | 1737.83          | 92389.47          | 125.82         | 917.37          | 12671.12         | -0.26            | 0.07                 | -49.95           | 2494.70              | -103.45          | 10701.28             |
| 2      | 1994         | 3.84                                | 62.93                 | 214.68                      | 3959.96          | 46089.36          | 241.77         | 824.82          | 13509.69         | 0.56             | 0.32                 | -28.71           | 824.04               | -192.72          | 37140.63             |
| 3      | 1998         | 0.60                                | 106.57                | 535.04                      | 11357.61         | 286263.48         | 64.35          | 323.09          | 57019.89         | -2.67            | 7.15                 | 14.94            | 223.14               | 127.63           | 16290.08             |
| 4      | 1999         | 2.77                                | 143.03                | 759.71                      | 20456.69         | 577163.06         | 396.28         | 2104.88         | 108659.32        | -0.51            | 0.26                 | 51.39            | 2641.21              | 352.31           | 124121.71            |
| 5      | 2001         | 0.00                                | 208.98                | 469.85                      | 43670.72         | 220758.88         | 0.00           | 0.00            | 98187.06         | -3.28            | 10.74                | 117.34           | 13768.95             | 62.45            | 3899.56              |
| 6      | 2002         | 6.59                                | 58.89                 | 281.02                      | 3468.47          | 78973.41          | 387.87         | 1850.78         | 16550.44         | 3.31             | 10.95                | -32.74           | 1071.94              | -126.38          | 15972.23             |
| 7      | 2004         | 2.81                                | 108.18                | 486.42                      | 11702.86         | 236608.52         | 304.49         | 1369.11         | 52621.26         | -0.46            | 0.21                 | 16.55            | 273.76               | 79.02            | 6244.29              |
| 8      | 2005         | 4.59                                | 45.32                 | 274.77                      | 2053.73          | 75496.13          | 207.78         | 1259.81         | 12451.87         | 1.31             | 1.71                 | -46.32           | 2145.18              | -132.64          | 17592.78             |
| 9      | 2008         | 5.28                                | 49.13                 | 341.18                      | 2413.42          | 116403.44         | 259.24         | 1800.39         | 16760.96         | 2.00             | 4.00                 | -42.51           | 1806.90              | -66.22           | 4385.60              |
|        | <b>Total</b> | <b>29.50</b>                        | <b>824.71</b>         | <b>3666.63</b>              | <b>100821.30</b> | <b>1730145.75</b> | <b>1987.60</b> | <b>10450.25</b> | <b>388431.63</b> | <b>0.00</b>      | <b>35.40</b>         | <b>0.00</b>      | <b>25249.81</b>      | <b>0.00</b>      | <b>236348.18</b>     |
| n = 9  | <b>Mean</b>  | <b>3.28</b>                         | <b>91.63</b>          | <b>407.40</b>               | $x_1^2$          | $x_2^2$           | $yx_1$         | $yx_2$          | $x_1x_2$         | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $29.50 = 9.00 a + 824.71 b + 3666.63 c$

or  $3.28 = a + 91.63 b + 407.40 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

1987.60 = 91.63 a + 100821.30 b + 388431.63 c

21.69 = a + 1100.26 b + 4238.94 c Eq-2

or 18.41 = 1008.62 b + 3831.53 c Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

10450.25 = 3666.63 a + 388431.63 b + 1730145.75 c

2.85 = a + 105.94 b + 471.86 c Eq-4

21.69 = a + 1100.26 b + 4238.94 c Eq-2

or 18.84 = 994.32 b + 3767.07 c Eq-5(Eq2-Eq4)

19.11 = 1008.62 b + 3821.26 c

18.41 = 1008.62 b + 3831.53 c (Eq-3)

or 0.70 = -10.27 c

or  $c = -0.0680$

$b = 0.2765$

$a = 5.6366$

$y = 5.6366 + 0.2765 x_1 - 0.068 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = -0.7566$

$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = -0.5417$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.6789$

$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.8354$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 2.10$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 56.18$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 171.88$

**ANNEXURE -V/5**

**WEEKLY CORRELATION EQUATION FOR 05<sup>th</sup> WEEK (29 JAN TO 04 FEB) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE -II**

| SL No. | Year         | 05 <sup>th</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$         | $x_1x_2$         | $y-y_{\bar{y}}$   | $(y-y_{\bar{y}})^2$   | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|----------------|----------------|------------------|-------------------|-----------------------|---------------------|-------------------------|---------------------|-------------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |                |                |                  |                   |                       |                     |                         |                     |                         |
| 1      | 1993         | 3.26                                | 41.69                 | 303.96                      | 1737.83         | 92389.47          | 135.90         | 990.93         | 12671.12         | 1.30              | 1.69                  | -38.00              | 1444.02                 | -136.74             | 18698.87                |
| 2      | 1996         | 2.07                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 102.34         | 714.22         | 17003.22         | 0.11              | 0.01                  | -30.33              | 919.71                  | -96.23              | 9260.51                 |
| 3      | 1999         | 0.68                                | 143.03                | 759.71                      | 20456.69        | 577163.06         | 97.53          | 518.05         | 108659.32        | -1.28             | 1.63                  | 63.34               | 4011.88                 | 319.01              | 101768.84               |
| 4      | 2000         | 2.25                                | 31.14                 | 564.93                      | 969.94          | 319145.49         | 70.08          | 1271.25        | 17594.07         | 0.29              | 0.08                  | -48.54              | 2356.49                 | 124.23              | 15432.95                |
| 5      | 2001         | 0.00                                | 208.98                | 469.85                      | 43670.72        | 220758.88         | 0.00           | 0.00           | 98187.06         | -1.96             | 3.84                  | 129.29              | 16715.36                | 29.15               | 849.70                  |
| 6      | 2002         | 1.87                                | 58.89                 | 281.02                      | 3468.47         | 78973.41          | 110.14         | 525.57         | 16550.44         | -0.09             | 0.01                  | -20.79              | 432.38                  | -159.68             | 25497.10                |
| 7      | 2004         | 0.47                                | 108.18                | 486.42                      | 11702.86        | 236608.52         | 50.37          | 226.47         | 52621.26         | -1.49             | 2.23                  | 28.49               | 811.81                  | 45.72               | 2090.69                 |
| 8      | 2005         | 3.80                                | 45.32                 | 274.77                      | 2053.73         | 75496.13          | 172.14         | 1043.69        | 12451.87         | 1.84              | 3.38                  | -34.37              | 1181.25                 | -165.93             | 27534.29                |
| 9      | 2007         | 0.92                                | 61.16                 | 580.69                      | 3740.89         | 337205.07         | 56.55          | 536.87         | 35516.85         | -1.04             | 1.07                  | -18.52              | 343.16                  | 139.99              | 19598.16                |
| 10     | 2008         | 4.28                                | 49.13                 | 341.18                      | 2413.42         | 116403.44         | 210.17         | 1459.62        | 16760.96         | 2.32              | 5.37                  | -30.56              | 933.97                  | -99.52              | 9904.37                 |
|        | <b>Total</b> | <b>19.60</b>                        | <b>796.88</b>         | <b>4407.00</b>              | <b>92651.04</b> | <b>2172802.10</b> | <b>1005.23</b> | <b>7286.67</b> | <b>388016.18</b> | <b>0.00</b>       | <b>19.33</b>          | <b>0.00</b>         | <b>29150.04</b>         | <b>0.00</b>         | <b>230635.49</b>        |
| n = 10 | <b>Mean</b>  | <b>1.96</b>                         | <b>79.69</b>          | <b>440.70</b>               | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$         | $x_1x_2$         | $y_1-y_{\bar{y}}$ | $(y_1-y_{\bar{y}})^2$ | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |



Regression equation may be given as

$$y = a + bx_1 + cx_2 \quad \mathbf{0.8572}$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

$$\text{or } 19.60 = 10.00 a + 796.88 b + 4407.00 c$$

$$\text{or } 1.96 = a + 79.69 b + 440.70 c \quad \text{Eq-1}$$

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$$1005.23 = 79.69 a + 92651.04 b + 388016.18 c$$

$$12.61 = a + 1162.68 b + 4869.22 c \quad \text{Eq-2}$$

$$\text{or } 10.65 = 1082.99 b + 4428.52 c \quad \text{Eq-3(Eq2-Eq1)}$$

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$$7286.67 = 4407.00 a + 388016.18 b + 2172802.10 c$$

$$1.65 = a + 88.05 b + 493.03 c \quad \text{Eq-4}$$

$$12.61 = a + 1162.68 b + 4869.22 c \quad \text{Eq-2}$$

$$\text{or } 10.96 = 1074.63 b + 4376.19 c \quad \text{Eq-5(Eq-2-Eq-4)}$$

$$11.05 = 1082.99 b + 4410.22 c$$

$$10.65 = 1082.99 b + 4428.52 c \quad \text{(Eq-3)}$$

$$\text{or } 0.39 = -18.30 c$$

$$\text{or } c = \mathbf{-0.0214}$$

$$b = \mathbf{0.0975}$$

$$a = \mathbf{3.6371}$$

$$y = \mathbf{3.6371 + 0.0975 x_1 - 0.0214 x_2}$$

$$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = \mathbf{-0.7418}$$

$$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = \mathbf{-0.6404}$$

$$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = \mathbf{0.4492}$$

$$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = \mathbf{0.8572}$$

$$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 1.47$$

$$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 56.91$$

$$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 160.08$$

**ANNEXURE -V/6**

**WEEKLY CORRELATION EQUATION FOR 06<sup>th</sup> WEEK (05 TO 11 FEB) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 06 <sup>th</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$          | $x_1x_2$         | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|----------------|-----------------|------------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |                |                 |                  |                  |                      |                  |                      |                  |                      |
| 1      | 1993         | 0.82                                | 41.69                 | 303.96                      | 1737.83         | 92389.47          | 34.30          | 250.06          | 12671.12         | -1.71            | 2.93                 | -22.62           | 511.87               | -46.66           | 2177.50              |
| 2      | 1994         | 0.00                                | 62.93                 | 214.68                      | 3959.96         | 46089.36          | 0.00           | 0.00            | 13509.69         | -2.53            | 6.42                 | -1.38            | 1.91                 | -135.94          | 18478.51             |
| 3      | 1995         | 0.16                                | 31.34                 | 283.23                      | 982.00          | 80218.24          | 4.95           | 44.70           | 8875.48          | -2.38            | 5.65                 | -32.97           | 1087.35              | -67.39           | 4541.65              |
| 4      | 1996         | 1.47                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 72.52          | 506.12          | 17003.22         | -1.06            | 1.13                 | -14.95           | 223.54               | -6.15            | 37.84                |
| 5      | 1997         | 4.25                                | 45.39                 | 399.82                      | 2060.32         | 159856.24         | 192.70         | 1697.37         | 18148.13         | 1.71             | 2.93                 | -18.92           | 358.01               | 49.20            | 2420.66              |
| 6      | 1998         | 10.18                               | 106.57                | 535.04                      | 11357.61        | 286263.48         | 1084.97        | 5447.01         | 57019.89         | 7.65             | 58.47                | 42.26            | 1785.93              | 184.42           | 34009.24             |
| 7      | 2002         | 0.35                                | 58.89                 | 281.02                      | 3468.47         | 78973.41          | 20.37          | 97.22           | 16550.44         | -2.19            | 4.79                 | -5.42            | 29.36                | -69.60           | 4843.87              |
| 8      | 2003         | 0.00                                | 121.37                | 385.51                      | 14730.73        | 148620.46         | 0.00           | 0.00            | 46789.82         | -2.53            | 6.42                 | 57.06            | 3255.66              | 34.89            | 1217.54              |
| 9      | 2007         | 9.19                                | 61.16                 | 580.69                      | 3740.89         | 337205.07         | 562.22         | 5337.84         | 35516.85         | 6.66             | 44.33                | -3.15            | 9.92                 | 230.07           | 52933.86             |
| 10     | 2008         | 1.32                                | 49.13                 | 341.18                      | 2413.42         | 116403.44         | 65.06          | 451.81          | 16760.96         | -1.21            | 1.46                 | -15.19           | 230.59               | -9.44            | 89.12                |
| 11     | 2009         | 0.14                                | 79.60                 | 187.22                      | 6336.37         | 35050.59          | 11.00          | 25.87           | 14902.81         | -2.40            | 5.74                 | 15.29            | 233.77               | -163.40          | 26700.21             |
|        | <b>Total</b> | <b>27.88</b>                        | <b>707.43</b>         | <b>3856.82</b>              | <b>53224.07</b> | <b>1499728.41</b> | <b>2048.09</b> | <b>13858.01</b> | <b>257748.43</b> | <b>0.00</b>      | <b>140.27</b>        | <b>0.00</b>      | <b>7727.90</b>       | <b>0.00</b>      | <b>147450.00</b>     |
| n = 11 | <b>Mean</b>  | <b>2.53</b>                         | <b>64.31</b>          | <b>350.62</b>               | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$          | $x_1x_2$         | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $27.88 = 11.00 a + 707.43 b + 3856.82 c$

or  $2.53 = a + 64.31 b + 350.62 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

##### =  $64.31 a + 53224.07 b + 257748.43 c$

$31.85 = a + 827.59 b + 4007.79 c$  Eq-2

or  $29.31 = 763.28 b + 3657.17 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

##### =  $3856.82 a + 257748.43 b + 1499728.41 c$

$3.59 = a + 66.83 b + 388.85 c$  Eq-4

$31.85 = a + 827.59 b + 4007.79 c$  Eq-2

or  $28.25 = 760.76 b + 3618.94 c$  Eq-5(Eq-2-Eq-4)

$28.35 = 763.28 b + 3630.91 c$

$29.31 = 763.28 b + 3657.17 c$  (Eq-3)

or  $-0.97 = -26.26 c$

or  $c = 0.0368$

$b = -0.1378$

$a = -1.4974$

$y = -1.4974 - 0.1378 x_1 + 0.036 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.2452$

$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.8980$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.2876$

$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.9045$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 3.75$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 27.80$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 121.43$

**ANNEXURE -V/7**

**WEEKLY CORRELATION EQUATION FOR 07<sup>th</sup> WEEK (12 TO 18 FEB) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No.   | Year         | 07 <sup>th</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$         | $x_1x_2$         | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|----------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|----------------|----------------|------------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|          |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |                |                |                  |                  |                      |                  |                      |                  |                      |
| 1        | 1993         | 0.09                                | 41.69                 | 303.96                      | 1737.83         | 92389.47          | 3.73           | 27.23          | 12671.12         | -1.77            | 3.13                 | -10.52           | 110.66               | -97.20           | 9447.07              |
| 2        | 1994         | 0.00                                | 62.93                 | 214.68                      | 3959.96         | 46089.36          | 0.00           | 0.00           | 13509.69         | -1.86            | 3.45                 | 10.72            | 114.95               | -186.47          | 34770.34             |
| 3        | 1995         | 0.94                                | 31.34                 | 283.23                      | 982.00          | 80218.24          | 29.49          | 266.55         | 8875.48          | -0.92            | 0.84                 | -20.87           | 435.56               | -117.92          | 13906.10             |
| 4        | 1996         | 0.30                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 14.67          | 102.40         | 17003.22         | -1.56            | 2.43                 | -2.85            | 8.10                 | -56.68           | 3213.05              |
| 5        | 1997         | 0.61                                | 45.39                 | 399.82                      | 2060.32         | 159856.24         | 27.63          | 243.42         | 18148.13         | -1.25            | 1.56                 | -6.82            | 46.46                | -1.33            | 1.77                 |
| 6        | 1998         | 9.24                                | 106.57                | 535.04                      | 11357.61        | 286263.48         | 984.44         | 4942.29        | 57019.89         | 7.38             | 54.46                | 54.37            | 2955.58              | 133.88           | 17924.81             |
| 7        | 2000         | 0.60                                | 31.14                 | 564.93                      | 969.94          | 319145.49         | 18.76          | 340.31         | 17594.07         | -1.26            | 1.58                 | -21.06           | 443.65               | 163.78           | 26822.99             |
| 8        | 2002         | 2.69                                | 58.89                 | 281.02                      | 3468.47         | 78973.41          | 158.28         | 755.25         | 16550.44         | 0.83             | 0.69                 | 6.69             | 44.72                | -120.13          | 14431.29             |
| 9        | 2006         | 0.30                                | 36.67                 | 563.66                      | 1344.86         | 317709.95         | 11.05          | 169.83         | 20670.61         | -1.56            | 2.42                 | -15.53           | 241.32               | 162.51           | 26407.96             |
| 10       | 2007         | 4.55                                | 61.16                 | 580.69                      | 3740.89         | 337205.07         | 278.05         | 2639.88        | 35516.85         | 2.69             | 7.23                 | 8.96             | 80.21                | 179.54           | 32235.05             |
| 11       | 2008         | 1.12                                | 49.13                 | 341.18                      | 2413.42         | 116403.44         | 55.09          | 382.58         | 16760.96         | -0.74            | 0.54                 | -3.08            | 9.49                 | -59.97           | 3596.75              |
|          | <b>Total</b> | <b>20.43</b>                        | <b>574.28</b>         | <b>4412.68</b>              | <b>34471.76</b> | <b>1952912.79</b> | <b>1581.20</b> | <b>9869.73</b> | <b>234320.48</b> | <b>0.00</b>      | <b>78.33</b>         | <b>0.00</b>      | <b>4490.69</b>       | <b>0.00</b>      | <b>182757.18</b>     |
| $n = 11$ | <b>Mean</b>  | <b>1.86</b>                         | <b>52.21</b>          | <b>401.15</b>               | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$         | $x_1x_2$         | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $20.43 = 11.00 a + 574.28 b + 4412.68 c$

or  $1.86 = a + 52.21 b + 401.15 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

##### =  $52.21 a + 34471.76 b + 234320.48 c$

$30.29 = a + 660.29 b + 4488.31 c$  Eq-2

or  $28.43 = 608.09 b + 4087.16 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

##### =  $4412.68 a + 234320.48 b + 1952912.79 c$

$2.24 = a + 53.10 b + 442.57 c$  Eq-4

$30.29 = a + 660.29 b + 4488.31 c$  Eq-2

or  $28.05 = 607.19 b + 4045.74 c$  Eq-5(Eq-2-Eq-4)

$28.09 = 608.09 b + 4051.71 c$

$28.43 = 608.09 b + 4087.16 c$  (Eq-3)

or  $-0.34 = -35.45 c$

or  $c = 0.0095$

$b = -0.0173$

$a = -1.0621$

$y = -1.0621 - 0.0173 x_1 + 0.0095 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.8675$

$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.4422$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.1378$

$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.8949$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 2.80$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 21.19$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 135.19$

**ANNEXURE -V/8**

**WEEKLY CORRELATION EQUATION FOR 08<sup>th</sup> WEEK (19 TO 25 FEB) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE -II**

| SL No.   | Year         | 08 <sup>th</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$         | $x_1x_2$         | $y-y_{\bar{y}}$     | $(y-y_{\bar{y}})^2$     | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |
|----------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|----------------|----------------|------------------|---------------------|-------------------------|---------------------|-------------------------|---------------------|-------------------------|
|          |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |                |                |                  |                     |                         |                     |                         |                     |                         |
| 1        | 1993         | 0.00                                | 41.69                 | 303.96                      | 1737.83         | 92389.47          | 0.00           | 0.00           | 12671.12         | -1.01               | 1.03                    | -26.22              | 687.34                  | -136.19             | 18548.27                |
| 2        | 1994         | 0.00                                | 62.93                 | 214.68                      | 3959.96         | 46089.36          | 0.00           | 0.00           | 13509.69         | -1.01               | 1.03                    | -4.98               | 24.76                   | -225.46             | 50834.04                |
| 3        | 1996         | 0.00                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 0.00           | 0.00           | 17003.22         | -1.01               | 1.03                    | -18.54              | 343.87                  | -95.68              | 9154.62                 |
| 4        | 1997         | 0.00                                | 45.39                 | 399.82                      | 2060.32         | 159856.24         | 0.00           | 0.00           | 18148.13         | -1.01               | 1.03                    | -22.51              | 506.86                  | -40.33              | 1626.36                 |
| 5        | 1998         | 2.44                                | 106.57                | 535.04                      | 11357.61        | 286263.48         | 259.67         | 1303.64        | 57019.89         | 1.42                | 2.03                    | 38.67               | 1495.19                 | 94.89               | 9003.65                 |
| 6        | 1999         | 4.46                                | 143.03                | 759.71                      | 20456.69        | 577163.06         | 638.16         | 3389.69        | 108659.32        | 3.45                | 11.89                   | 75.12               | 5643.39                 | 319.56              | 102121.21               |
| 7        | 2000         | 1.41                                | 31.14                 | 564.93                      | 969.94          | 319145.49         | 43.95          | 797.25         | 17594.07         | 0.40                | 0.16                    | -36.76              | 1351.34                 | 124.78              | 15570.36                |
| 8        | 2004         | 1.32                                | 108.18                | 486.42                      | 11702.86        | 236608.52         | 143.16         | 643.73         | 52621.26         | 0.31                | 0.10                    | 40.28               | 1622.11                 | 46.28               | 2141.45                 |
| 9        | 2006         | 0.83                                | 36.67                 | 563.66                      | 1344.86         | 317709.95         | 30.52          | 469.09         | 20670.61         | -0.18               | 0.03                    | -31.23              | 975.44                  | 123.51              | 15254.54                |
| 10       | 2007         | 0.52                                | 61.16                 | 580.69                      | 3740.89         | 337205.07         | 31.54          | 299.45         | 35516.85         | -0.50               | 0.25                    | -6.74               | 45.45                   | 140.55              | 19752.96                |
| 11       | 2008         | 1.04                                | 49.13                 | 341.18                      | 2413.42         | 116403.44         | 51.16          | 355.33         | 16760.96         | 0.03                | 0.00                    | -18.78              | 352.61                  | -98.97              | 9794.84                 |
| 12       | 2009         | 0.14                                | 79.60                 | 187.22                      | 6336.37         | 35050.59          | 11.00          | 25.87          | 14902.81         | -0.88               | 0.77                    | 11.70               | 136.82                  | -252.93             | 63973.76                |
|          | <b>Total</b> | <b>12.16</b>                        | <b>814.85</b>         | <b>5281.78</b>              | <b>68517.22</b> | <b>2642543.32</b> | <b>1209.17</b> | <b>7284.05</b> | <b>385077.94</b> | <b>0.00</b>         | <b>19.33</b>            | <b>0.00</b>         | <b>13185.18</b>         | <b>0.00</b>         | <b>317776.06</b>        |
| $n = 12$ | <b>Mean</b>  | <b>1.01</b>                         | <b>67.90</b>          | <b>440.15</b>               | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$         | $x_1x_2$         | $y_1-y_{\bar{y}_1}$ | $(y_1-y_{\bar{y}_1})^2$ | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $12.16 = 12.00 a + 814.85 b + 5281.78 c$

or  $1.01 = a + 67.90 b + 440.15 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

##### =  $67.90 a + 68517.22 b + 385077.94 c$

$17.81 = a + 1009.03 b + 5670.89 c$  Eq-2

or  $16.79 = 941.12 b + 5230.74 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

##### =  $5281.78 a + 385077.94 b + 2642543.32 c$

$1.38 = a + 72.91 b + 500.31 c$  Eq-4

$17.81 = a + 1009.03 b + 5670.89 c$  Eq-2

or  $16.43 = 936.12 b + 5170.57 c$  Eq-5(Eq-2-Eq-4)

$16.52 = 941.12 b + 5198.20 c$

$16.79 = 941.12 b + 5230.74 c$  (Eq-3)

or  $-0.28 = -32.53 c$

or  $c = 0.0085$

$b = -0.0296$

$a = -0.7343$

$y = -0.7343 - 0.0296 x_1 + 0.0085 x_2$

$\sigma_y = \sqrt{\sum (y - \bar{y})^2 / (n-1)} = 1.33$

$\sigma_{x_1} = \sqrt{\sum (x_1 - \bar{x}_1)^2 / (n-1)} = 34.62$

$\sigma_{x_2} = \sqrt{\sum (x_2 - \bar{x}_2)^2 / (n-1)} = 169.97$

$R_{yx_1} = \frac{\sum (yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.7595$

$R_{yx_2} = \frac{\sum (yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.7794$

$R_{x_1x_2} = \frac{\sum (x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.4082$

$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.9132$

**ANNEXURE -V/9**

**WEEKLY CORRELATION EQUATION FOR 09<sup>th</sup> WEEK (26 FEB TO 04 MAR) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 09 <sup>th</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$         | $x_1x_2$         | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|----------------|----------------|------------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |                |                |                  |                  |                      |                  |                      |                  |                      |
| 1      | 1996         | 6.28                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 309.99         | 2163.32        | 17003.22         | 3.22             | 10.35                | -29.11           | 847.67               | -111.18          | 12361.23             |
| 2      | 1998         | 1.79                                | 106.57                | 535.04                      | 11357.61        | 286263.48         | 190.65         | 957.16         | 57019.89         | -1.27            | 1.62                 | 28.10            | 789.42               | 79.39            | 6302.18              |
| 3      | 2000         | 0.78                                | 31.14                 | 564.93                      | 969.94          | 319145.49         | 24.33          | 441.33         | 17594.07         | -2.28            | 5.21                 | -47.33           | 2240.28              | 109.28           | 11942.11             |
| 4      | 2001         | 0.00                                | 208.98                | 469.85                      | 43670.72        | 220758.88         | 0.00           | 0.00           | 98187.06         | -3.06            | 9.39                 | 130.50           | 17030.25             | 14.20            | 201.64               |
| 5      | 2002         | 10.64                               | 58.89                 | 281.02                      | 3468.47         | 78973.41          | 626.91         | 2991.42        | 16550.44         | 7.58             | 57.47                | -19.58           | 383.44               | -174.63          | 30494.80             |
| 6      | 2004         | 0.90                                | 108.18                | 486.42                      | 11702.86        | 236608.52         | 97.54          | 438.60         | 52621.26         | -2.16            | 4.67                 | 29.70            | 882.35               | 30.77            | 947.07               |
| 7      | 2005         | 6.41                                | 45.32                 | 274.77                      | 2053.73         | 75496.13          | 290.35         | 1760.40        | 12451.87         | 3.34             | 11.18                | -33.16           | 1099.40              | -180.88          | 32719.06             |
| 8      | 2006         | 0.09                                | 36.67                 | 563.66                      | 1344.86         | 317709.95         | 3.20           | 49.20          | 20670.61         | -2.98            | 8.86                 | -41.80           | 1747.50              | 108.01           | 11665.72             |
| 9      | 2007         | 0.68                                | 61.16                 | 580.69                      | 3740.89         | 337205.07         | 41.69          | 395.78         | 35516.85         | -2.38            | 5.67                 | -17.31           | 299.73               | 125.04           | 15635.98             |
|        | <b>Total</b> | <b>27.57</b>                        | <b>706.28</b>         | <b>4100.85</b>              | <b>80745.56</b> | <b>1990819.56</b> | <b>1584.67</b> | <b>9197.19</b> | <b>327615.28</b> | <b>0.00</b>      | <b>114.42</b>        | <b>0.00</b>      | <b>25320.04</b>      | <b>0.00</b>      | <b>122269.79</b>     |
| n = 9  | <b>Mean</b>  | <b>3.06</b>                         | <b>78.48</b>          | <b>455.65</b>               | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$         | $x_1x_2$         | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |



Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

$$\text{or } 27.57 = 9.00a + 706.28b + 4100.85c$$

$$\text{or } 3.06 = a + 78.48b + 455.65c \quad \text{Eq-1}$$

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$$\text{#####} = 78.48a + 80745.56b + 327615.28c$$

$$20.19 = a + 1028.93b + 4174.75c \quad \text{Eq-2}$$

$$\text{or } 17.13 = 950.45b + 3719.10c \quad \text{Eq-3(Eq2-Eq1)}$$

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$$\text{#####} = 4100.85a + 327615.28b + 1990819.56c$$

$$2.24 = a + 79.89b + 485.47c \quad \text{Eq-4}$$

$$20.19 = a + 1028.93b + 4174.75c \quad \text{Eq-2}$$

$$\text{or } 17.95 = 949.04b + 3689.28c \quad \text{Eq-5(Eq-2-Eq-4)}$$

$$17.98 = 950.45b + 3694.78c$$

$$17.13 = 950.45b + 3719.10c \quad \text{(Eq-3)}$$

$$\text{or } 0.85 = -24.32c$$

$$\text{or } c = -0.0349 \quad R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = -0.3402$$

$$b = 0.1544 \quad R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = -0.9000$$

$$a = 6.8280 \quad R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.1042$$

$$y = 6.828 + 0.1544x_1 - 0.0349x_2 \quad R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.9121$$

$$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 3.78$$

$$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 56.26$$

$$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 123.63$$

**ANNEXURE -V/10**

**WEEKLY CORRELATION EQUATION FOR 10<sup>th</sup> WEEK (05 TO 11 MAR) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No.   | Year         | 10 <sup>th</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$          | $x_1x_2$         | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|----------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|----------------|-----------------|------------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|          |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |                |                 |                  |                  |                      |                  |                      |                  |                      |
| 1        | 1993         | 1.73                                | 41.69                 | 303.96                      | 1737.83         | 92389.47          | 72.02          | 525.09          | 12671.12         | -0.48            | 0.23                 | -27.53           | 757.88               | -117.60          | 13830.28             |
| 2        | 1995         | 0.00                                | 31.34                 | 283.23                      | 982.00          | 80218.24          | 0.00           | 0.00            | 8875.48          | -2.20            | 4.86                 | -37.88           | 1434.90              | -138.33          | 19135.28             |
| 3        | 1996         | 0.47                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 23.26          | 162.32          | 17003.22         | -1.73            | 3.00                 | -19.86           | 394.27               | -77.09           | 5942.86              |
| 4        | 1997         | 0.00                                | 45.39                 | 399.82                      | 2060.32         | 159856.24         | 0.00           | 0.00            | 18148.13         | -2.20            | 4.86                 | -23.83           | 567.69               | -21.74           | 472.55               |
| 5        | 1999         | 5.56                                | 143.03                | 759.71                      | 20456.69        | 577163.06         | 795.06         | 4223.12         | 108659.32        | 3.35             | 11.25                | 73.81            | 5447.90              | 338.15           | 114348.07            |
| 6        | 2000         | 2.32                                | 31.14                 | 564.93                      | 969.94          | 319145.49         | 72.20          | 1309.67         | 17594.07         | 0.11             | 0.01                 | -38.07           | 1449.57              | 143.37           | 20555.26             |
| 7        | 2003         | 3.34                                | 121.37                | 385.51                      | 14730.73        | 148620.46         | 404.96         | 1286.30         | 46789.82         | 1.13             | 1.28                 | 52.15            | 2719.96              | -36.05           | 1299.27              |
| 8        | 2004         | 3.42                                | 108.18                | 486.42                      | 11702.86        | 236608.52         | 370.39         | 1665.45         | 52621.26         | 1.22             | 1.49                 | 38.96            | 1518.10              | 64.87            | 4207.55              |
| 9        | 2007         | 5.30                                | 61.16                 | 580.69                      | 3740.89         | 337205.07         | 324.30         | 3078.94         | 35516.85         | 3.10             | 9.60                 | -8.05            | 64.87                | 159.14           | 25323.96             |
| 10       | 2008         | 1.97                                | 49.13                 | 341.18                      | 2413.42         | 116403.44         | 96.81          | 672.37          | 16760.96         | -0.23            | 0.05                 | -20.09           | 403.63               | -80.38           | 6460.80              |
| 11       | 2009         | 0.14                                | 79.60                 | 187.22                      | 6336.37         | 35050.59          | 11.00          | 25.87           | 14902.81         | -2.07            | 4.27                 | 10.38            | 107.83               | -234.34          | 54915.48             |
|          | <b>Total</b> | <b>24.25</b>                        | <b>761.39</b>         | <b>4637.14</b>              | <b>67567.53</b> | <b>2221319.23</b> | <b>2170.01</b> | <b>12949.12</b> | <b>349543.05</b> | <b>0.00</b>      | <b>40.90</b>         | <b>0.00</b>      | <b>14866.61</b>      | <b>0.00</b>      | <b>266491.36</b>     |
| $n = 11$ | <b>Mean</b>  | <b>2.20</b>                         | <b>69.22</b>          | <b>421.56</b>               | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$          | $x_1x_2$         | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $24.25 = 11.00 a + 761.39 b + 4637.14 c$

or  $2.20 = a + 69.22 b + 421.56 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

##### =  $69.22 a + 67567.53 b + 349543.05 c$

$31.35 = a + 976.17 b + 5049.96 c$  Eq-2

or  $29.15 = 906.95 b + 4628.40 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

##### =  $4637.14 a + 349543.05 b + 2221319.23 c$

$2.79 = a + 75.38 b + 479.03 c$  Eq-4

$31.35 = a + 976.17 b + 5049.96 c$  Eq-2

or  $28.56 = 900.79 b + 4570.93 c$  Eq-5(Eq-2-Eq-4)

$28.75 = 906.95 b + 4602.20 c$

$29.15 = 906.95 b + 4628.40 c$  (Eq-3)

or  $-0.39 = -26.20 c$

or  $c = 0.0150$

$b = -0.0444$

$a = -1.0445$

$y = -1.0445 - 0.0444 x_1 + 0.015 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(y \bar{x}_1)}{(n-1) \sigma_y \sigma_{x_1}} = 0.6305$

$R_{yx_2} = \frac{\sum(yx_2) - n(y \bar{x}_2)}{(n-1) \sigma_y \sigma_{x_2}} = 0.8261$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1 \bar{x}_2)}{(n-1) \sigma_{x_1} \sigma_{x_2}} = 0.4540$

$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.8993$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 2.02$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 38.56$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 163.25$

**ANNEXURE -V/11**

**WEEKLY CORRELATION EQUATION FOR 11<sup>th</sup> WEEK (12 TO 18 MAR) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 11 <sup>th</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$         | $x_1x_2$         | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|----------------|----------------|------------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |                |                |                  |                  |                      |                  |                      |                  |                      |
| 1      | 1994         | 8.53                                | 62.93                 | 214.68                      | 3959.96         | 46089.36          | 536.81         | 1831.36        | 13509.69         | 5.29             | 27.98                | -25.74           | 662.68               | -180.00          | 32398.94             |
| 2      | 1998         | 1.11                                | 106.57                | 535.04                      | 11357.61        | 286263.48         | 118.38         | 594.30         | 57019.89         | -2.13            | 4.54                 | 17.90            | 320.46               | 140.35           | 19699.41             |
| 3      | 2001         | 0.00                                | 208.98                | 469.85                      | 43670.72        | 220758.88         | 0.00           | 0.00           | 98187.06         | -3.24            | 10.50                | 120.30           | 14473.22             | 75.17            | 5650.30              |
| 4      | 2002         | 4.75                                | 58.89                 | 281.02                      | 3468.47         | 78973.41          | 279.96         | 1335.87        | 16550.44         | 1.51             | 2.29                 | -29.78           | 886.67               | -113.66          | 12918.44             |
| 5      | 2003         | 1.99                                | 121.37                | 385.51                      | 14730.73        | 148620.46         | 241.10         | 765.81         | 46789.82         | -1.25            | 1.57                 | 32.70            | 1069.26              | -9.17            | 84.05                |
| 6      | 2004         | 3.29                                | 108.18                | 486.42                      | 11702.86        | 236608.52         | 355.40         | 1598.02        | 52621.26         | 0.04             | 0.00                 | 19.51            | 380.60               | 91.74            | 8416.75              |
| 7      | 2005         | 7.30                                | 45.32                 | 274.77                      | 2053.73         | 75496.13          | 330.77         | 2005.49        | 12451.87         | 4.06             | 16.47                | -43.35           | 1879.44              | -119.92          | 14379.80             |
| 8      | 2006         | 0.09                                | 36.67                 | 563.66                      | 1344.86         | 317709.95         | 3.34           | 51.37          | 20670.61         | -3.15            | 9.92                 | -52.00           | 2703.84              | 168.98           | 28552.98             |
| 9      | 2008         | 2.11                                | 49.13                 | 341.18                      | 2413.42         | 116403.44         | 103.57         | 719.27         | 16760.96         | -1.13            | 1.28                 | -39.54           | 1563.74              | -53.50           | 2862.45              |
|        | <b>Total</b> | <b>29.16</b>                        | <b>798.04</b>         | <b>3552.13</b>              | <b>94702.36</b> | <b>1526923.63</b> | <b>1969.32</b> | <b>8901.49</b> | <b>334561.63</b> | <b>0.00</b>      | <b>74.56</b>         | <b>0.00</b>      | <b>23939.91</b>      | <b>0.00</b>      | <b>124963.12</b>     |
| n = 9  | <b>Mean</b>  | <b>3.24</b>                         | <b>88.67</b>          | <b>394.68</b>               | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$         | $x_1x_2$         | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regr  
essi  
on  
equa  
tion  
may  
be  
give  
n as

$$y = a + bx_1 + cx_2 \quad \mathbf{0.8878}$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

$$\text{or } 29.16 = 9.00a + 798.04b + 3552.13c$$

$$\text{or } 3.24 = a + 88.67b + 394.68c \quad \text{Eq-1}$$

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$$\text{#####} = 88.67a + 94702.36b + 334561.63c$$

$$22.21 = a + 1068.02b + 3773.08c \quad \text{Eq-2}$$

$$\text{or } 18.97 = 979.35b + 3378.40c \quad \text{Eq-3(Eq2-Eq1)}$$

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$$\text{#####} = 3552.13a + 334561.63b + 1526923.63c$$

$$2.51 = a + 94.19b + 429.86c \quad \text{Eq-4}$$

$$22.21 = a + 1068.02b + 3773.08c \quad \text{Eq-2}$$

$$\text{or } 19.70 = 973.84b + 3343.22c \quad \text{Eq-5(Eq-2-Eq-4)}$$

$$19.81 = 979.35b + 3362.15c$$

$$18.97 = 979.35b + 3378.40c \quad \text{(Eq-3)}$$

$$\text{or } 0.85 = -16.25c$$

$$\text{or } c = \mathbf{-0.0521}$$

$$b = \mathbf{0.1991}$$

$$a = \mathbf{6.1485}$$

$$y = \mathbf{6.1485 + 0.1991x_1 - 0.0521x_2}$$

$$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = \mathbf{-0.4616}$$

$$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = \mathbf{-0.8549}$$

$$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = \mathbf{0.3582}$$

$$R_{yx_1x_2} = \sqrt{(1 - (R_{yx_1})^2) * (1 - (R_{yx_2})^2)} = \mathbf{0.8878}$$

$$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 3.05$$

$$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 54.70$$

$$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 124.98$$

**ANNEXURE -V/12**

**WEEKLY CORRELATION EQUATION FOR 12<sup>th</sup> WEEK (19 TO 25 MAR) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 12 <sup>th</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$         | $x_1x_2$         | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|----------------|----------------|------------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |                |                |                  |                  |                      |                  |                      |                  |                      |
| 1      | 1993         | 0.00                                | 41.69                 | 303.96                      | 1737.83         | 92389.47          | 0.00           | 0.00           | 12671.12         | -1.51            | 2.29                 | -22.95           | 526.69               | -119.84          | 14360.47             |
| 2      | 1994         | 1.28                                | 62.93                 | 214.68                      | 3959.96         | 46089.36          | 80.49          | 274.60         | 13509.69         | -0.23            | 0.05                 | -1.71            | 2.92                 | -209.11          | 43725.83             |
| 3      | 1995         | 0.00                                | 31.34                 | 283.23                      | 982.00          | 80218.24          | 0.00           | 0.00           | 8875.48          | -1.51            | 2.29                 | -33.30           | 1108.89              | -140.56          | 19758.04             |
| 4      | 1996         | 0.93                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 45.74          | 319.18         | 17003.22         | -0.59            | 0.34                 | -15.28           | 233.36               | -79.32           | 6292.13              |
| 5      | 1997         | 0.00                                | 45.39                 | 399.82                      | 2060.32         | 159856.24         | 0.00           | 0.00           | 18148.13         | -1.51            | 2.29                 | -19.25           | 370.42               | -23.97           | 574.62               |
| 6      | 1999         | 3.79                                | 143.03                | 759.71                      | 20456.69        | 577163.06         | 541.51         | 2876.35        | 108659.32        | 2.27             | 5.17                 | 78.39            | 6144.99              | 335.92           | 112842.87            |
| 7      | 2000         | 0.23                                | 31.14                 | 564.93                      | 969.94          | 319145.49         | 7.15           | 129.66         | 17594.07         | -1.28            | 1.65                 | -33.49           | 1121.79              | 141.14           | 19919.96             |
| 8      | 2002         | 2.23                                | 58.89                 | 281.02                      | 3468.47         | 78973.41          | 131.05         | 625.35         | 16550.44         | 0.71             | 0.51                 | -5.74            | 32.98                | -142.77          | 20383.12             |
| 9      | 2003         | 4.90                                | 121.37                | 385.51                      | 14730.73        | 148620.46         | 595.06         | 1890.12        | 46789.82         | 3.39             | 11.49                | 56.73            | 3218.67              | -38.28           | 1465.23              |
| 10     | 2004         | 2.86                                | 108.18                | 486.42                      | 11702.86        | 236608.52         | 309.54         | 1391.84        | 52621.26         | 1.35             | 1.82                 | 43.54            | 1895.98              | 62.63            | 3922.85              |
| 11     | 2006         | 0.02                                | 36.67                 | 563.66                      | 1344.86         | 317709.95         | 0.84           | 12.84          | 20670.61         | -1.49            | 2.22                 | -27.96           | 782.02               | 139.87           | 19562.53             |
| 12     | 2007         | 1.15                                | 61.16                 | 580.69                      | 3740.89         | 337205.07         | 70.40          | 668.42         | 35516.85         | -0.36            | 0.13                 | -3.47            | 12.07                | 156.90           | 24618.25             |
| 13     | 2008         | 2.28                                | 49.13                 | 341.18                      | 2413.42         | 116403.44         | 111.92         | 777.25         | 16760.96         | 0.77             | 0.59                 | -15.51           | 240.57               | -82.61           | 6824.75              |
|        | <b>Total</b> | <b>19.66</b>                        | <b>840.28</b>         | <b>5509.29</b>              | <b>70004.44</b> | <b>2629041.35</b> | <b>1893.71</b> | <b>8965.61</b> | <b>385370.99</b> | <b>0.00</b>      | <b>30.83</b>         | <b>0.00</b>      | <b>15691.35</b>      | <b>0.00</b>      | <b>294250.67</b>     |
| n = 13 | <b>Mean</b>  | <b>1.51</b>                         | <b>64.64</b>          | <b>423.79</b>               | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$         | $x_1x_2$         | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $19.66 = 13.00 a + 840.28 b + 5509.29 c$

or  $1.51 = a + 64.64 b + 423.79 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

1893.71 = 64.64 a + 70004.44 b + 385370.99 c

29.30 = a + 1083.04 b + 5962.09 c Eq-2

or 27.79 = 1018.40 b + 5538.30 c Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

8965.61 = 5509.29 a + 385370.99 b + 2629041.35 c

1.63 = a + 69.95 b + 477.20 c Eq-4

29.30 = a + 1083.04 b + 5962.09 c Eq-2

or 27.67 = 1013.09 b + 5484.89 c Eq-5(Eq-2-Eq-4)

27.82 = 1018.40 b + 5513.65 c

27.79 = 1018.40 b + 5538.30 c (Eq-3)

or 0.03 = -24.65 c

or  $c = -0.0012$

$b = 0.0340$

$a = -0.1622$

$$y = -0.1622 + 0.034 x_1 - 0.0012 x_2$$

$$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.8953$$

$$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.2100$$

$$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.4307$$

$$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.9002$$

$$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 1.60$$

$$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 36.16$$

$$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 156.59$$

**ANNEXURE -V/13**

**WEEKLY CORRELATION EQUATION FOR 13<sup>th</sup> WEEK (26 MAR TO 01 APR) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 13 <sup>th</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$         | $x_1x_2$         | $y-y_{\bar{y}}$     | $(y-y_{\bar{y}})^2$     | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|----------------|----------------|------------------|---------------------|-------------------------|---------------------|-------------------------|---------------------|-------------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |                |                |                  |                     |                         |                     |                         |                     |                         |
| 1      | 1994         | 0.20                                | 62.93                 | 214.68                      | 3959.96         | 46089.36          | 12.72          | 43.41          | 13509.69         | -0.62               | 0.39                    | -0.92               | 0.85                    | -188.63             | 35579.45                |
| 2      | 1995         | 0.00                                | 31.34                 | 283.23                      | 982.00          | 80218.24          | 0.00           | 0.00           | 8875.48          | -0.83               | 0.68                    | -32.51              | 1057.14                 | -120.08             | 14419.50                |
| 3      | 1996         | 0.00                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 0.00           | 0.00           | 17003.22         | -0.83               | 0.68                    | -14.49              | 209.95                  | -58.84              | 3462.25                 |
| 4      | 1997         | 0.00                                | 45.39                 | 399.82                      | 2060.32         | 159856.24         | 0.00           | 0.00           | 18148.13         | -0.83               | 0.68                    | -18.46              | 340.76                  | -3.49               | 12.17                   |
| 5      | 1999         | 3.92                                | 143.03                | 759.71                      | 20456.69        | 577163.06         | 559.98         | 2974.41        | 108659.32        | 3.09                | 9.55                    | 79.18               | 6268.91                 | 356.40              | 127023.10               |
| 6      | 2000         | 0.53                                | 31.14                 | 564.93                      | 969.94          | 319145.49         | 16.51          | 299.42         | 17594.07         | -0.30               | 0.09                    | -32.71              | 1069.72                 | 161.62              | 26121.07                |
| 7      | 2002         | 0.00                                | 58.89                 | 281.02                      | 3468.47         | 78973.41          | 0.00           | 0.00           | 16550.44         | -0.83               | 0.68                    | -4.96               | 24.57                   | -122.29             | 14954.21                |
| 8      | 2003         | 4.24                                | 121.37                | 385.51                      | 14730.73        | 148620.46         | 514.20         | 1633.27        | 46789.82         | 3.41                | 11.64                   | 57.52               | 3308.52                 | -17.80              | 316.71                  |
| 9      | 2005         | 0.90                                | 45.32                 | 274.77                      | 2053.73         | 75496.13          | 40.56          | 245.93         | 12451.87         | 0.07                | 0.00                    | -18.53              | 343.45                  | -128.54             | 16523.53                |
| 10     | 2006         | 0.02                                | 36.67                 | 563.66                      | 1344.86         | 317709.95         | 0.84           | 12.84          | 20670.61         | -0.80               | 0.64                    | -27.18              | 738.65                  | 160.35              | 25711.54                |
| 11     | 2007         | 0.00                                | 61.16                 | 580.69                      | 3740.89         | 337205.07         | 0.00           | 0.00           | 35516.85         | -0.83               | 0.68                    | -2.69               | 7.22                    | 177.38              | 31465.13                |
| 12     | 2009         | 0.10                                | 79.60                 | 187.22                      | 6336.37         | 35050.59          | 8.25           | 19.41          | 14902.81         | -0.72               | 0.52                    | 15.75               | 248.09                  | -216.09             | 46695.51                |
|        | <b>Total</b> | <b>9.91</b>                         | <b>766.21</b>         | <b>4839.71</b>              | <b>62540.44</b> | <b>2294186.64</b> | <b>1153.06</b> | <b>5228.70</b> | <b>330672.32</b> | <b>0.00</b>         | <b>26.24</b>            | <b>0.00</b>         | <b>13617.84</b>         | <b>0.00</b>         | <b>342284.17</b>        |
| n = 12 | <b>Mean</b>  | <b>0.83</b>                         | <b>63.85</b>          | <b>403.31</b>               | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$         | $x_1x_2$         | $y_1-y_{\bar{y}_1}$ | $(y_1-y_{\bar{y}_1})^2$ | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |



Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $9.91 = 12.00 a + 766.21 b + 4839.71 c$

or  $0.83 = a + 63.85 b + 403.31 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

1153.06 = 63.85 a + 62540.44 b + 330672.32 c

18.06 = a + 979.48 b + 5178.85 c Eq-2

or 17.23 = 915.63 b + 4775.54 c Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

5228.70 = 4839.71 a + 330672.32 b + 2294186.64 c

1.08 = a + 68.32 b + 474.03 c Eq-4

18.06 = a + 979.48 b + 5178.85 c Eq-2

or 16.98 = 911.16 b + 4704.82 c Eq-5(Eq-2-Eq-4)

17.06 = 915.63 b + 4727.92 c

17.23 = 915.63 b + 4775.54 c (Eq-3)

or -0.17 = -47.62 c

or  $c = 0.0036$

$b = 0.0000$

$a = -0.6295$

$y = -0.6295 + 0 x_1 + 0.003 x_2$

$$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.8710$$

$$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.4117$$

$$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.3172$$

$$R_{yx_1x_2} = \sqrt{(1-(1-(R_{yx_1}^2)) * (1-(R_{yx_2}^2)))} = 0.8941$$

$$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 1.54$$

$$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 35.19$$

$$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 176.40$$

**ANNEXURE -V/14**

**WEEKLY CORRELATION EQUATION FOR 14<sup>th</sup> WEEK (02 TO 08 APR) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 14 <sup>th</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$        | $yx_2$         | $x_1x_2$         | $y-y_{\bar{y}}$     | $(y-y_{\bar{y}})^2$     | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|---------------|----------------|------------------|---------------------|-------------------------|---------------------|-------------------------|---------------------|-------------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |               |                |                  |                     |                         |                     |                         |                     |                         |
| 1      | 1993         | 0.00                                | 41.69                 | 303.96                      | 1737.83         | 92389.47          | 0.00          | 0.00           | 12671.12         | -0.52               | 0.27                    | -19.53              | 381.36                  | -87.82              | 7712.11                 |
| 2      | 1994         | 0.37                                | 62.93                 | 214.68                      | 3959.96         | 46089.36          | 23.30         | 79.47          | 13509.69         | -0.15               | 0.02                    | 1.71                | 2.93                    | -177.09             | 31361.10                |
| 3      | 1995         | 0.00                                | 31.34                 | 283.23                      | 982.00          | 80218.24          | 0.00          | 0.00           | 8875.48          | -0.52               | 0.27                    | -29.88              | 892.74                  | -108.55             | 11782.39                |
| 4      | 1996         | 0.21                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 10.41         | 72.65          | 17003.22         | -0.31               | 0.10                    | -11.85              | 140.54                  | -47.31              | 2237.89                 |
| 5      | 1997         | 0.00                                | 45.39                 | 399.82                      | 2060.32         | 159856.24         | 0.00          | 0.00           | 18148.13         | -0.52               | 0.27                    | -15.82              | 250.43                  | 8.05                | 64.73                   |
| 6      | 1999         | 3.74                                | 143.03                | 759.71                      | 20456.69        | 577163.06         | 535.03        | 2841.90        | 108659.32        | 3.22                | 10.35                   | 81.81               | 6693.08                 | 367.94              | 135378.01               |
| 7      | 2000         | 0.00                                | 31.14                 | 564.93                      | 969.94          | 319145.49         | 0.00          | 0.00           | 17594.07         | -0.52               | 0.27                    | -30.07              | 904.32                  | 173.15              | 29982.54                |
| 8      | 2002         | 0.00                                | 58.89                 | 281.02                      | 3468.47         | 78973.41          | 0.00          | 0.00           | 16550.44         | -0.52               | 0.27                    | -2.32               | 5.39                    | -110.75             | 12266.20                |
| 9      | 2003         | 2.25                                | 121.37                | 385.51                      | 14730.73        | 148620.46         | 272.74        | 866.33         | 46789.82         | 1.72                | 2.97                    | 60.15               | 3618.57                 | -6.26               | 39.21                   |
| 10     | 2005         | 0.00                                | 45.32                 | 274.77                      | 2053.73         | 75496.13          | 0.00          | 0.00           | 12451.87         | -0.52               | 0.27                    | -15.90              | 252.73                  | -117.01             | 13691.20                |
| 11     | 2006         | 0.14                                | 36.67                 | 563.66                      | 1344.86         | 317709.95         | 5.01          | 77.06          | 20670.61         | -0.39               | 0.15                    | -24.54              | 602.38                  | 171.88              | 29543.66                |
| 12     | 2007         | 0.00                                | 61.16                 | 580.69                      | 3740.89         | 337205.07         | 0.00          | 0.00           | 35516.85         | -0.52               | 0.27                    | -0.05               | 0.00                    | 188.92              | 35690.25                |
| 13     | 2008         | 0.56                                | 49.13                 | 341.18                      | 2413.42         | 116403.44         | 27.62         | 191.82         | 16760.96         | 0.04                | 0.00                    | -12.09              | 146.15                  | -50.60              | 2559.90                 |
| 14     | 2009         | 0.07                                | 79.60                 | 187.22                      | 6336.37         | 35050.59          | 5.50          | 12.94          | 14902.81         | -0.45               | 0.21                    | 18.39               | 338.03                  | -204.56             | 41843.54                |
|        | <b>Total</b> | <b>7.34</b>                         | <b>857.02</b>         | <b>5484.85</b>              | <b>66691.68</b> | <b>2502979.55</b> | <b>879.61</b> | <b>4142.17</b> | <b>360104.40</b> | <b>0.00</b>         | <b>15.72</b>            | <b>0.00</b>         | <b>14228.65</b>         | <b>0.00</b>         | <b>354152.72</b>        |
| n = 14 | <b>Mean</b>  | <b>0.52</b>                         | <b>61.22</b>          | <b>391.77</b>               | $x_1^2$         | $x_2^2$           | $yx_1$        | $yx_2$         | $x_1x_2$         | $y_1-y_{\bar{y}_1}$ | $(y_1-y_{\bar{y}_1})^2$ | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $7.34 = 14.00 a + 857.02 b + 5484.85 c$

or  $0.52 = a + 61.22 b + 391.77 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$879.61 = 61.22 a + 66691.68 b + 360104.40 c$

$14.37 = a + 1089.45 b + 5882.55 c$  Eq-2

or  $13.84 = 1028.24 b + 5490.78 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$4142.17 = 5484.85 a + 360104.40 b + 2502979.55 c$

$0.76 = a + 65.65 b + 456.34 c$  Eq-4

$14.37 = a + 1089.45 b + 5882.55 c$  Eq-2

or  $13.61 = 1023.80 b + 5426.21 c$  Eq-5(Eq-2-Eq-4)

$13.67 = 1028.24 b + 5449.73 c$

$13.84 = 1028.24 b + 5490.78 c$  (Eq-3)

or  $-0.17 = -41.04 c$

or  $c = 0.0042$

$b = -0.0089$

$a = -0.5722$

$y = -0.5722 - 0.0089 x_1 + 0.0042 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.9102$

$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.5373$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.3430$

$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.9370$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 1.10$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 33.08$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 165.05$

WEEKLY CORRELATION EQUATION FOR 15<sup>th</sup> WEEK (09 TO 15 APR) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II

| SL No. | Year         | 15 <sup>th</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$        | $yx_2$         | $x_1x_2$         | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|---------------|----------------|------------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |               |                |                  |                  |                      |                  |                      |                  |                      |
| 1      | 1994         | 0.37                                | 62.93                 | 214.68                      | 3959.96         | 46089.36          | 23.56         | 80.39          | 13509.69         | -0.07            | 0.00                 | 1.35             | 1.82                 | -195.35          | 38160.71             |
| 2      | 1995         | 0.00                                | 31.34                 | 283.23                      | 982.00          | 80218.24          | 0.00          | 0.00           | 8875.48          | -0.44            | 0.20                 | -30.24           | 914.62               | -126.80          | 16079.19             |
| 3      | 1996         | 0.00                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 0.00          | 0.00           | 17003.22         | -0.44            | 0.20                 | -12.22           | 149.30               | -65.56           | 4298.56              |
| 4      | 1997         | 0.00                                | 45.39                 | 399.82                      | 2060.32         | 159856.24         | 0.00          | 0.00           | 18148.13         | -0.44            | 0.20                 | -16.19           | 262.08               | -10.21           | 104.28               |
| 5      | 1998         | 0.28                                | 106.57                | 535.04                      | 11357.61        | 286263.48         | 29.31         | 147.15         | 57019.89         | -0.17            | 0.03                 | 44.99            | 2024.33              | 125.00           | 15625.99             |
| 6      | 1999         | 3.58                                | 143.03                | 759.71                      | 20456.69        | 577163.06         | 511.74        | 2718.17        | 108659.32        | 3.13             | 9.82                 | 81.45            | 6633.67              | 349.68           | 122276.44            |
| 7      | 2000         | 0.00                                | 31.14                 | 564.93                      | 969.94          | 319145.49         | 0.00          | 0.00           | 17594.07         | -0.44            | 0.20                 | -30.44           | 926.33               | 154.90           | 23993.28             |
| 8      | 2002         | 0.00                                | 58.89                 | 281.02                      | 3468.47         | 78973.41          | 0.00          | 0.00           | 16550.44         | -0.44            | 0.20                 | -2.69            | 7.21                 | -129.01          | 16643.56             |
| 9      | 2005         | 0.00                                | 45.32                 | 274.77                      | 2053.73         | 75496.13          | 0.00          | 0.00           | 12451.87         | -0.44            | 0.20                 | -16.26           | 264.43               | -135.27          | 18297.00             |
| 10     | 2006         | 0.25                                | 36.67                 | 563.66                      | 1344.86         | 317709.95         | 9.19          | 141.28         | 20670.61         | -0.19            | 0.04                 | -24.91           | 620.37               | 153.63           | 23600.84             |
| 11     | 2007         | 0.57                                | 61.16                 | 580.69                      | 3740.89         | 337205.07         | 34.98         | 332.14         | 35516.85         | 0.13             | 0.02                 | -0.42            | 0.17                 | 170.66           | 29125.39             |
| 12     | 2008         | 0.68                                | 49.13                 | 341.18                      | 2413.42         | 116403.44         | 33.29         | 231.17         | 16760.96         | 0.23             | 0.05                 | -12.45           | 155.08               | -68.85           | 4740.67              |
| 13     | 2009         | 0.05                                | 79.60                 | 187.22                      | 6336.37         | 35050.59          | 4.32          | 10.16          | 14902.81         | -0.39            | 0.15                 | 18.02            | 324.78               | -222.81          | 49646.06             |
|        | <b>Total</b> | <b>5.78</b>                         | <b>800.53</b>         | <b>5330.42</b>              | <b>61580.73</b> | <b>2548233.10</b> | <b>646.39</b> | <b>3660.46</b> | <b>357663.36</b> | <b>0.00</b>      | <b>11.30</b>         | <b>0.00</b>      | <b>12284.20</b>      | <b>0.00</b>      | <b>362591.97</b>     |
| n = 13 | <b>Mean</b>  | <b>0.44</b>                         | <b>61.58</b>          | <b>410.03</b>               | $x_1^2$         | $x_2^2$           | $yx_1$        | $yx_2$         | $x_1x_2$         | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $5.78 = 13.00 a + 800.53 b + 5330.42 c$

or  $0.44 = a + 61.58 b + 410.03 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$646.39 = 61.58 a + 61580.73 b + 357663.36 c$

$10.50 = a + 1000.02 b + 5808.15 c$  Eq-2

or  $10.05 = 938.44 b + 5398.12 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$3660.46 = 5330.42 a + 357663.36 b + 2548233.10 c$

$0.69 = a + 67.10 b + 478.06 c$  Eq-4

$10.50 = a + 1000.02 b + 5808.15 c$  Eq-2

or  $9.81 = 932.92 b + 5330.10 c$  Eq-5(Eq-2-Eq-4)

$9.87 = 938.44 b + 5361.63 c$

$10.05 = 938.44 b + 5398.12 c$  (Eq-3)

or  $-0.18 = -36.49 c$

or  $c = 0.0050$

$b = -0.0183$

$a = -0.4962$

$y = -0.4962 - 0.0183 x_1 + 0.005 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.7794$

$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.6372$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.4408$

$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.8757$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 0.97$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 32.00$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 173.83$

WEEKLY CORRELATION EQUATION FOR 16<sup>th</sup> WEEK (16 TO 22 APR) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II

| SL No. | Year         | 16 <sup>th</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$        | $yx_2$         | $x_1x_2$         | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|---------------|----------------|------------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |               |                |                  |                  |                      |                  |                      |                  |                      |
| 1      | 1993         | 0.00                                | 41.69                 | 303.96                      | 1737.83         | 92389.47          | 0.00          | 0.00           | 12671.12         | -0.49            | 0.24                 | -20.70           | 428.63               | -86.00           | 7396.13              |
| 2      | 1994         | 0.33                                | 62.93                 | 214.68                      | 3959.96         | 46089.36          | 20.53         | 70.04          | 13509.69         | -0.16            | 0.03                 | 0.54             | 0.29                 | -175.27          | 30720.56             |
| 3      | 1995         | 0.00                                | 31.34                 | 283.23                      | 982.00          | 80218.24          | 0.00          | 0.00           | 8875.48          | -0.49            | 0.24                 | -31.05           | 964.33               | -106.73          | 11391.06             |
| 4      | 1996         | 0.00                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 0.00          | 0.00           | 17003.22         | -0.49            | 0.24                 | -13.03           | 169.78               | -45.49           | 2069.20              |
| 5      | 1997         | 0.00                                | 45.39                 | 399.82                      | 2060.32         | 159856.24         | 0.00          | 0.00           | 18148.13         | -0.49            | 0.24                 | -17.00           | 289.00               | 9.86             | 97.28                |
| 6      | 1998         | 0.55                                | 106.57                | 535.04                      | 11357.61        | 286263.48         | 59.05         | 296.46         | 57019.89         | 0.07             | 0.00                 | 44.18            | 1952.00              | 145.08           | 21047.87             |
| 7      | 1999         | 2.80                                | 143.03                | 759.71                      | 20456.69        | 577163.06         | 400.11        | 2125.27        | 108659.32        | 2.31             | 5.33                 | 80.64            | 6502.22              | 369.76           | 136719.02            |
| 10     | 2002         | 0.00                                | 58.89                 | 281.02                      | 3468.47         | 78973.41          | 0.00          | 0.00           | 16550.44         | -0.49            | 0.24                 | -3.50            | 12.23                | -108.94          | 11866.85             |
| 13     | 2005         | 0.00                                | 45.32                 | 274.77                      | 2053.73         | 75496.13          | 0.00          | 0.00           | 12451.87         | -0.49            | 0.24                 | -17.07           | 291.47               | -115.19          | 13269.09             |
| 14     | 2006         | 1.42                                | 36.67                 | 563.66                      | 1344.86         | 317709.95         | 52.13         | 801.30         | 20670.61         | 0.93             | 0.87                 | -25.72           | 661.43               | 173.70           | 30171.87             |
| 15     | 2007         | 0.46                                | 61.16                 | 580.69                      | 3740.89         | 337205.07         | 27.88         | 264.69         | 35516.85         | -0.03            | 0.00                 | -1.23            | 1.51                 | 190.74           | 36380.40             |
| 16     | 2008         | 0.75                                | 49.13                 | 341.18                      | 2413.42         | 116403.44         | 36.84         | 255.84         | 16760.96         | 0.26             | 0.07                 | -13.26           | 175.94               | -48.78           | 2379.26              |
| 17     | 2009         | 0.05                                | 79.60                 | 187.22                      | 6336.37         | 35050.59          | 4.13          | 9.70           | 14902.81         | -0.44            | 0.19                 | 17.21            | 296.21               | -202.74          | 41103.14             |
|        | <b>Total</b> | <b>6.36</b>                         | <b>811.08</b>         | <b>5069.44</b>              | <b>62348.63</b> | <b>2321477.09</b> | <b>600.67</b> | <b>3823.31</b> | <b>352740.40</b> | <b>0.00</b>      | <b>7.92</b>          | <b>0.00</b>      | <b>11745.02</b>      | <b>0.00</b>      | <b>344611.73</b>     |
| n = 13 | <b>Mean</b>  | <b>0.49</b>                         | <b>62.39</b>          | <b>389.96</b>               | $x_1^2$         | $x_2^2$           | $yx_1$        | $yx_2$         | $x_1x_2$         | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2 \quad \mathbf{0.9017}$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $6.36 = 13.00 a + 811.08 b + 5069.44 c$

or  $0.49 = a + 62.39 b + 389.96 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$600.67 = 62.39 a + 62348.63 b + 352740.40 c$

$9.63 = a + 999.33 b + 5653.74 c$  Eq-2

or  $9.14 = 936.94 b + 5263.79 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$3823.31 = 5069.44 a + 352740.40 b + 2321477.09 c$

$0.75 = a + 69.58 b + 457.94 c$  Eq-4

$9.63 = a + 999.33 b + 5653.74 c$  Eq-2

or  $8.87 = 929.75 b + 5195.81 c$  Eq-5(Eq-2-Eq-4)

$8.94 = 936.94 b + 5236.00 c$

$9.14 = 936.94 b + 5263.79 c$  (Eq-3)

or  $-0.20 = -27.79 c$

or  $c = \mathbf{0.0071}$

$b = \mathbf{-0.0300}$

$a = \mathbf{-0.3985}$

$$y = \mathbf{-0.3985 - 0.03 x_1 + 0.007 x_2}$$

$$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = \mathbf{0.6689}$$

$$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = \mathbf{0.8135}$$

$$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = \mathbf{0.5730}$$

$$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = \mathbf{0.9017}$$

$$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 0.81$$

$$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 31.29$$

$$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 169.46$$

WEEKLY CORRELATION EQUATION FOR 17<sup>th</sup> WEEK (23 TO 29 APR) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II

| SL No. | Year         | 17 <sup>th</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$        | $yx_2$        | $x_1x_2$         | $y-y$       | $(y-y)^2$   | $x_1-x$     | $(x_1-x)^2$    | $x_2-x$     | $(x_2-x)^2$      |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|---------------|---------------|------------------|-------------|-------------|-------------|----------------|-------------|------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |               |               |                  |             |             |             |                |             |                  |
| 1      | 1995         | 0.00                                | 31.34                 | 283.23                      | 982.00          | 80218.24          | 0.00          | 0.00          | 8875.48          | -0.16       | 0.02        | -38.39      | 1474.16        | -113.55     | 12892.79         |
| 2      | 1996         | 0.00                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 0.00          | 0.00          | 17003.22         | -0.16       | 0.02        | -20.37      | 414.98         | -52.31      | 2735.92          |
| 3      | 1997         | 0.00                                | 45.39                 | 399.82                      | 2060.32         | 159856.24         | 0.00          | 0.00          | 18148.13         | -0.16       | 0.02        | -24.34      | 592.48         | 3.05        | 9.28             |
| 4      | 1998         | 0.27                                | 106.57                | 535.04                      | 11357.61        | 286263.48         | 28.37         | 142.41        | 57019.89         | 0.11        | 0.01        | 36.84       | 1357.22        | 138.26      | 19116.19         |
| 5      | 2002         | 0.00                                | 58.89                 | 281.02                      | 3468.47         | 78973.41          | 0.00          | 0.00          | 16550.44         | -0.16       | 0.02        | -10.84      | 117.46         | -115.75     | 13398.66         |
| 6      | 2003         | 0.00                                | 121.37                | 385.51                      | 14730.73        | 148620.46         | 0.00          | 0.00          | 46789.82         | -0.16       | 0.02        | 51.64       | 2666.54        | -11.26      | 126.82           |
| 7      | 2004         | 0.51                                | 108.18                | 486.42                      | 11702.86        | 236608.52         | 55.37         | 248.95        | 52621.26         | 0.36        | 0.13        | 38.45       | 1478.26        | 89.65       | 8037.04          |
| 8      | 2005         | 0.00                                | 45.32                 | 274.77                      | 2053.73         | 75496.13          | 0.00          | 0.00          | 12451.87         | -0.16       | 0.02        | -24.41      | 596.02         | -122.01     | 14886.21         |
| 9      | 2007         | 0.62                                | 61.16                 | 580.69                      | 3740.89         | 337205.07         | 37.98         | 360.55        | 35516.85         | 0.47        | 0.22        | -8.57       | 73.43          | 183.92      | 33826.18         |
|        | <b>Total</b> | <b>1.40</b>                         | <b>627.59</b>         | <b>3570.97</b>              | <b>52533.09</b> | <b>1521900.19</b> | <b>121.71</b> | <b>751.92</b> | <b>264976.98</b> | <b>0.00</b> | <b>0.50</b> | <b>0.00</b> | <b>8770.54</b> | <b>0.00</b> | <b>105029.09</b> |
| n = 9  | <b>Mean</b>  | <b>0.16</b>                         | <b>69.73</b>          | <b>396.77</b>               | $x_1^2$         | $x_2^2$           | $yx_1$        | $yx_2$        | $x_1x_2$         | $y_1-y$     | $(y_1-y)^2$ | $x_1-x$     | $(x_1-x)^2$    | $x_2-x$     | $(x_2-x)^2$      |



Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $1.40 = 9.00 a + 627.59 b + 3570.97 c$

or  $0.16 = a + 69.73 b + 396.77 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$121.71 = 69.73 a + 52533.09 b + 264976.98 c$

$1.75 = a + 753.36 b + 3799.95 c$  Eq-2

or  $1.59 = 683.63 b + 3403.18 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$751.92 = 3570.97 a + 264976.98 b + 1521900.19 c$

$0.21 = a + 74.20 b + 426.19 c$  Eq-4

$1.75 = a + 753.36 b + 3799.95 c$  Eq-2

or  $1.53 = 679.16 b + 3373.76 c$  Eq-5(Eq-2-Eq-4)

$1.54 = 683.63 b + 3395.98 c$

$1.59 = 683.63 b + 3403.18 c$  (Eq-3)

or  $-0.05 = -7.20 c$

or  $c = 0.0063$

$b = -0.0288$

$a = -0.3172$

$y = -0.3172 - 0.0288 x_1 + 0.006 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.3646$

$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.8584$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.5261$

$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.8785$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 0.25$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 33.11$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 114.58$

**ANNEXURE -V/18**

**WEEKLY CORRELATION EQUATION FOR 18<sup>th</sup> WEEK (30 APR TO 06 MAY) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 18 <sup>th</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$        | $yx_2$        | $x_1x_2$         | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|---------------|---------------|------------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |               |               |                  |                  |                      |                  |                      |                  |                      |
| 1      | 1993         | 0.02                                | 41.69                 | 303.96                      | 1737.83         | 92389.47          | 1.03          | 7.52          | 12671.12         | -0.17            | 0.03                 | -13.65           | 186.36               | -47.07           | 2215.39              |
| 2      | 1994         | 0.38                                | 62.93                 | 214.68                      | 3959.96         | 46089.36          | 24.14         | 82.36         | 13509.69         | 0.19             | 0.04                 | 7.59             | 57.60                | -136.34          | 18588.58             |
| 3      | 1995         | 0.00                                | 31.34                 | 283.23                      | 982.00          | 80218.24          | 0.00          | 0.00          | 8875.48          | -0.19            | 0.04                 | -24.00           | 576.08               | -67.80           | 4596.30              |
| 4      | 1996         | 0.00                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 0.00          | 0.00          | 17003.22         | -0.19            | 0.04                 | -5.98            | 35.73                | -6.56            | 42.98                |
| 5      | 1997         | 0.00                                | 45.39                 | 399.82                      | 2060.32         | 159856.24         | 0.00          | 0.00          | 18148.13         | -0.19            | 0.04                 | -9.95            | 98.96                | 48.80            | 2381.05              |
| 6      | 2002         | 0.00                                | 58.89                 | 281.02                      | 3468.47         | 78973.41          | 0.00          | 0.00          | 16550.44         | -0.19            | 0.04                 | 3.56             | 12.64                | -70.00           | 4900.31              |
| 7      | 2004         | 1.24                                | 108.18                | 486.42                      | 11702.86        | 236608.52         | 134.62        | 605.32        | 52621.26         | 1.05             | 1.11                 | 52.84            | 2792.20              | 135.40           | 18333.14             |
| 8      | 2005         | 0.00                                | 45.32                 | 274.77                      | 2053.73         | 75496.13          | 0.00          | 0.00          | 12451.87         | -0.19            | 0.04                 | -10.02           | 100.41               | -76.26           | 5815.39              |
| 9      | 2007         | 0.05                                | 61.16                 | 580.69                      | 3740.89         | 337205.07         | 2.95          | 28.01         | 35516.85         | -0.14            | 0.02                 | 5.82             | 33.92                | 229.67           | 52748.00             |
| 10     | 2008         | 0.23                                | 49.13                 | 341.18                      | 2413.42         | 116403.44         | 11.33         | 78.70         | 16760.96         | 0.04             | 0.00                 | -6.21            | 38.59                | -9.84            | 96.92                |
|        | <b>Total</b> | <b>1.93</b>                         | <b>553.38</b>         | <b>3510.24</b>              | <b>34555.96</b> | <b>1341898.52</b> | <b>174.08</b> | <b>801.91</b> | <b>204109.03</b> | <b>0.00</b>      | <b>1.38</b>          | <b>0.00</b>      | <b>3932.49</b>       | <b>0.00</b>      | <b>109718.06</b>     |
| n = 10 | <b>Mean</b>  | <b>0.19</b>                         | <b>55.34</b>          | <b>351.02</b>               | $x_1^2$         | $x_2^2$           | $yx_1$        | $yx_2$        | $x_1x_2$         | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2 \quad \mathbf{0.9216}$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $1.93 = 10.00 a + 553.38 b + 3510.24 c$

or  $0.19 = a + 55.34 b + 351.02 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$174.08 = 55.34 a + 3455.96 b + 204109.03 c$

$3.15 = a + 624.45 b + 3688.37 c$  Eq-2

or  $2.95 = 569.11 b + 3337.35 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$801.91 = 3510.24 a + 204109.03 b + 1341898.52 c$

$0.23 = a + 58.15 b + 382.28 c$  Eq-4

$3.15 = a + 624.45 b + 3688.37 c$  Eq-2

or  $2.92 = 566.30 b + 3306.09 c$  Eq-5(Eq-2-Eq-4)

$2.93 = 569.11 b + 3322.49 c$

$2.95 = 569.11 b + 3337.35 c$  (Eq-3)

or  $-0.02 = -14.86 c$

or  $c = 0.0014$

$b = -0.0030$

$a = -0.1310$

$y = -0.131 - 0.003 x_1 + 0.001 x_2$

$$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.9123$$

$$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.3184$$

$$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.4746$$

$$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.9216$$

$$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 0.39$$

$$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 20.90$$

$$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 110.41$$

**ANNEXURE -V/19**

**WEEKLY CORRELATION EQUATION FOR 19<sup>th</sup> WEEK (07 TO 13 MAY) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 19 <sup>th</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$        | $yx_2$         | $x_1x_2$         | $y-y_{\bar{y}}$   | $(y-y_{\bar{y}})^2$   | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|---------------|----------------|------------------|-------------------|-----------------------|---------------------|-------------------------|---------------------|-------------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |               |                |                  |                   |                       |                     |                         |                     |                         |
| 1      | 1993         | 0.00                                | 41.69                 | 303.96                      | 1737.83         | 92389.47          | 0.00          | 0.00           | 12671.12         | -0.32             | 0.10                  | -24.64              | 606.94                  | -82.30              | 6773.61                 |
| 2      | 1994         | 0.34                                | 62.93                 | 214.68                      | 3959.96         | 46089.36          | 21.11         | 72.01          | 13509.69         | 0.01              | 0.00                  | -3.40               | 11.53                   | -171.57             | 29437.63                |
| 3      | 1995         | 0.00                                | 31.34                 | 283.23                      | 982.00          | 80218.24          | 0.00          | 0.00           | 8875.48          | -0.32             | 0.10                  | -34.99              | 1224.06                 | -103.03             | 10615.19                |
| 4      | 1996         | 0.00                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 0.00          | 0.00           | 17003.22         | -0.32             | 0.10                  | -16.96              | 287.73                  | -41.79              | 1746.38                 |
| 5      | 1997         | 0.00                                | 45.39                 | 399.82                      | 2060.32         | 159856.24         | 0.00          | 0.00           | 18148.13         | -0.32             | 0.10                  | -20.93              | 438.18                  | 13.56               | 183.93                  |
| 6      | 1999         | 1.58                                | 143.03                | 759.71                      | 20456.69        | 577163.06         | 225.62        | 1198.42        | 108659.32        | 1.25              | 1.57                  | 76.70               | 5883.43                 | 373.45              | 139468.03               |
| 7      | 2000         | 0.00                                | 31.14                 | 564.93                      | 969.94          | 319145.49         | 0.00          | 0.00           | 17594.07         | -0.32             | 0.10                  | -35.18              | 1237.60                 | 178.67              | 31923.44                |
| 8      | 2002         | 0.00                                | 58.89                 | 281.02                      | 3468.47         | 78973.41          | 0.00          | 0.00           | 16550.44         | -0.32             | 0.10                  | -7.43               | 55.20                   | -105.24             | 11074.66                |
| 9      | 2003         | 0.83                                | 121.37                | 385.51                      | 14730.73        | 148620.46         | 100.79        | 320.13         | 46789.82         | 0.51              | 0.26                  | 55.05               | 3030.16                 | -0.75               | 0.56                    |
| 10     | 2004         | 1.68                                | 108.18                | 486.42                      | 11702.86        | 236608.52         | 181.32        | 815.27         | 52621.26         | 1.35              | 1.83                  | 41.86               | 1751.96                 | 100.17              | 10033.21                |
| 11     | 2005         | 0.00                                | 45.32                 | 274.77                      | 2053.73         | 75496.13          | 0.00          | 0.00           | 12451.87         | -0.32             | 0.10                  | -21.01              | 441.22                  | -111.49             | 12430.62                |
| 12     | 2007         | 0.10                                | 61.16                 | 580.69                      | 3740.89         | 337205.07         | 5.90          | 56.02          | 35516.85         | -0.23             | 0.05                  | -5.16               | 26.63                   | 194.44              | 37805.09                |
| 13     | 2008         | 0.00                                | 49.13                 | 341.18                      | 2413.42         | 116403.44         | 0.00          | 0.00           | 16760.96         | -0.32             | 0.10                  | -17.20              | 295.73                  | -45.08              | 2032.10                 |
| 14     | 2009         | 0.00                                | 79.60                 | 187.22                      | 6336.37         | 35050.59          | 0.00          | 0.00           | 14902.81         | -0.32             | 0.10                  | 13.28               | 176.30                  | -199.04             | 39617.03                |
|        | <b>Total</b> | <b>4.52</b>                         | <b>928.53</b>         | <b>5407.62</b>              | <b>77049.69</b> | <b>2421878.12</b> | <b>534.73</b> | <b>2461.85</b> | <b>392055.06</b> | <b>0.00</b>       | <b>4.65</b>           | <b>0.00</b>         | <b>15466.66</b>         | <b>0.00</b>         | <b>333141.47</b>        |
| n = 14 | <b>Mean</b>  | <b>0.32</b>                         | <b>66.32</b>          | <b>386.26</b>               | $x_1^2$         | $x_2^2$           | $yx_1$        | $yx_2$         | $x_1x_2$         | $y_1-y_{\bar{y}}$ | $(y_1-y_{\bar{y}})^2$ | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $4.52 = 14.00 a + 928.53 b + 5407.62 c$

or  $0.32 = a + 66.32 b + 386.26 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$534.73 = 66.32 a + 77049.69 b + 392055.06 c$

$8.06 = a + 1161.73 b + 5911.27 c$  Eq-2

or  $7.74 = 1095.40 b + 5525.01 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$2461.85 = 5407.62 a + 392055.06 b + 2421878.12 c$

$0.46 = a + 72.50 b + 447.86 c$  Eq-4

$8.06 = a + 1161.73 b + 5911.27 c$  Eq-2

or  $7.61 = 1089.23 b + 5463.40 c$  Eq-5(Eq-2-Eq-4)

$7.65 = 1095.40 b + 5494.39 c$

$7.74 = 1095.40 b + 5525.01 c$  (Eq-3)

or  $-0.09 = -30.62 c$

or  $c = 0.0029$

$b = -0.0077$

$a = -0.2974$

$y = -0.2974 - 0.0077 x_1 + 0.0029 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.8769$

$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.5764$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.4654$

$R_{y_{x_1x_2}} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.9196$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 0.60$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 34.49$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 160.08$

**ANNEXURE -V/20**

**WEEKLY CORRELATION EQUATION FOR 20<sup>th</sup> WEEK (14 TO 20 MAY) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 20 <sup>th</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$        | $yx_2$         | $x_1x_2$         | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|---------------|----------------|------------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |               |                |                  |                  |                      |                  |                      |                  |                      |
| 1      | 1993         | 0.00                                | 41.69                 | 303.96                      | 1737.83         | 92389.47          | 0.00          | 0.00           | 12671.12         | -0.25            | 0.06                 | -14.37           | 206.58               | -103.10          | 10629.19             |
| 2      | 1995         | 0.00                                | 31.34                 | 283.23                      | 982.00          | 80218.24          | 0.00          | 0.00           | 8875.48          | -0.25            | 0.06                 | -24.72           | 611.24               | -123.83          | 15332.90             |
| 3      | 1996         | 0.00                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 0.00          | 0.00           | 17003.22         | -0.25            | 0.06                 | -6.70            | 44.88                | -62.59           | 3916.97              |
| 4      | 1997         | 0.00                                | 45.39                 | 399.82                      | 2060.32         | 159856.24         | 0.00          | 0.00           | 18148.13         | -0.25            | 0.06                 | -10.67           | 113.84               | -7.23            | 52.33                |
| 5      | 1999         | 1.96                                | 143.03                | 759.71                      | 20456.69        | 577163.06         | 279.88        | 1486.64        | 108659.32        | 1.70             | 2.91                 | 86.97            | 7563.22              | 352.66           | 124367.77            |
| 6      | 2000         | 0.00                                | 31.14                 | 564.93                      | 969.94          | 319145.49         | 0.00          | 0.00           | 17594.07         | -0.25            | 0.06                 | -24.92           | 620.82               | 157.88           | 24924.61             |
| 7      | 2002         | 0.00                                | 58.89                 | 281.02                      | 3468.47         | 78973.41          | 0.00          | 0.00           | 16550.44         | -0.25            | 0.06                 | 2.83             | 8.03                 | -126.03          | 15884.13             |
| 8      | 2005         | 0.00                                | 45.32                 | 274.77                      | 2053.73         | 75496.13          | 0.00          | 0.00           | 12451.87         | -0.25            | 0.06                 | -10.74           | 115.39               | -132.29          | 17500.31             |
| 9      | 2006         | 0.98                                | 36.67                 | 563.66                      | 1344.86         | 317709.95         | 35.77         | 549.84         | 20670.61         | 0.72             | 0.52                 | -19.39           | 375.89               | 156.60           | 24524.60             |
| 10     | 2007         | 0.10                                | 61.16                 | 580.69                      | 3740.89         | 337205.07         | 5.90          | 56.02          | 35516.85         | -0.16            | 0.02                 | 5.10             | 26.04                | 173.64           | 30150.60             |
| 11     | 2008         | 0.00                                | 49.13                 | 341.18                      | 2413.42         | 116403.44         | 0.00          | 0.00           | 16760.96         | -0.25            | 0.06                 | -6.93            | 48.07                | -65.87           | 4339.50              |
| 12     | 2009         | 0.00                                | 79.60                 | 187.22                      | 6336.37         | 35050.59          | 0.00          | 0.00           | 14902.81         | -0.25            | 0.06                 | 23.54            | 554.19               | -219.84          | 48328.00             |
|        | <b>Total</b> | <b>3.03</b>                         | <b>672.72</b>         | <b>4884.65</b>              | <b>48001.00</b> | <b>2308269.73</b> | <b>321.55</b> | <b>2092.49</b> | <b>299804.88</b> | <b>0.00</b>      | <b>4.03</b>          | <b>0.00</b>      | <b>10288.19</b>      | <b>0.00</b>      | <b>319950.91</b>     |
| n = 12 | <b>Mean</b>  | <b>0.25</b>                         | <b>56.06</b>          | <b>407.05</b>               | $x_1^2$         | $x_2^2$           | $yx_1$        | $yx_2$         | $x_1x_2$         | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $3.03 = 12.00 a + 672.72 b + 4884.65 c$

or  $0.25 = a + 56.06 b + 407.05 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$321.55 = 56.06 a + 48001.00 b + 299804.88 c$

$5.74 = a + 856.24 b + 5347.92 c$  Eq-2

or  $5.48 = 800.18 b + 4940.87 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$2092.49 = 4884.65 a + 299804.88 b + 2308269.73 c$

$0.43 = a + 61.38 b + 472.56 c$  Eq-4

$5.74 = a + 856.24 b + 5347.92 c$  Eq-2

or  $5.31 = 794.86 b + 4875.36 c$  Eq-5(Eq-2-Eq-4)

$5.34 = 800.18 b + 4907.98 c$

$5.48 = 800.18 b + 4940.87 c$  (Eq-3)

or  $-0.14 = -32.89 c$

or  $c = 0.0043$

$b = -0.0195$

$a = -0.3919$

$y = -0.3919 - 0.0195 x_1 + 0.004 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.7457$

$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.7574$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.4527$

$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.9004$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 0.60$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 30.58$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 170.55$

**ANNEXURE -V/21**

**WEEKLY CORRELATION EQUATION FOR 21<sup>st</sup> WEEK (21 TO 27 MAY) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 21 <sup>st</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$        | $yx_2$         | $x_1x_2$         | $y-y_{\bar{y}}$ | $(y-y_{\bar{y}})^2$ | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|---------------|----------------|------------------|-----------------|---------------------|---------------------|-------------------------|---------------------|-------------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |               |                |                  |                 |                     |                     |                         |                     |                         |
| 1      | 1993         | 0.20                                | 41.69                 | 303.96                      | 1737.83         | 92389.47          | 8.25          | 60.16          | 12671.12         | -0.12           | 0.02                | -28.19              | 794.50                  | -76.18              | 5803.75                 |
| 2      | 1994         | 0.38                                | 62.93                 | 214.68                      | 3959.96         | 46089.36          | 24.14         | 82.36          | 13509.69         | 0.06            | 0.00                | -6.95               | 48.25                   | -165.45             | 27375.15                |
| 3      | 1995         | 0.00                                | 31.34                 | 283.23                      | 982.00          | 80218.24          | 0.00          | 0.00           | 8875.48          | -0.32           | 0.10                | -38.54              | 1485.12                 | -96.91              | 9391.64                 |
| 4      | 1996         | 0.00                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 0.00          | 0.00           | 17003.22         | -0.32           | 0.10                | -20.51              | 420.80                  | -35.67              | 1272.35                 |
| 5      | 1997         | 0.00                                | 45.39                 | 399.82                      | 2060.32         | 159856.24         | 0.00          | 0.00           | 18148.13         | -0.32           | 0.10                | -24.48              | 599.44                  | 19.68               | 387.36                  |
| 6      | 1999         | 1.97                                | 143.03                | 759.71                      | 20456.69        | 577163.06         | 281.16        | 1493.44        | 108659.32        | 1.64            | 2.71                | 73.15               | 5351.33                 | 379.57              | 144076.25               |
| 7      | 2003         | 0.00                                | 121.37                | 385.51                      | 14730.73        | 148620.46         | 0.00          | 0.00           | 46789.82         | -0.32           | 0.10                | 51.50               | 2651.85                 | 5.37                | 28.89                   |
| 8      | 2004         | 0.80                                | 108.18                | 486.42                      | 11702.86        | 236608.52         | 86.12         | 387.22         | 52621.26         | 0.48            | 0.23                | 38.31               | 1467.32                 | 106.29              | 11296.61                |
| 9      | 2005         | 0.00                                | 45.32                 | 274.77                      | 2053.73         | 75496.13          | 0.00          | 0.00           | 12451.87         | -0.32           | 0.10                | -24.56              | 603.00                  | -105.37             | 11103.49                |
| 10     | 2007         | 0.19                                | 61.16                 | 580.69                      | 3740.89         | 337205.07         | 11.80         | 112.03         | 35516.85         | -0.13           | 0.02                | -8.71               | 75.89                   | 200.55              | 40222.27                |
| 11     | 2008         | 0.00                                | 49.13                 | 341.18                      | 2413.42         | 116403.44         | 0.00          | 0.00           | 16760.96         | -0.32           | 0.10                | -20.75              | 430.46                  | -38.96              | 1517.82                 |
| 12     | 2009         | 0.31                                | 79.60                 | 187.22                      | 6336.37         | 35050.59          | 24.96         | 58.69          | 14902.81         | -0.01           | 0.00                | 9.73                | 94.62                   | -192.92             | 37218.38                |
|        | <b>Total</b> | <b>3.85</b>                         | <b>838.49</b>         | <b>4561.66</b>              | <b>72611.28</b> | <b>2023759.22</b> | <b>436.43</b> | <b>2193.91</b> | <b>357910.54</b> | <b>0.00</b>     | <b>3.58</b>         | <b>0.00</b>         | <b>14022.56</b>         | <b>0.00</b>         | <b>289693.97</b>        |
| n = 12 | <b>Mean</b>  | <b>0.32</b>                         | <b>69.87</b>          | <b>380.14</b>               | $x_1^2$         | $x_2^2$           | $yx_1$        | $yx_2$         | $x_1x_2$         | $y-y_{\bar{y}}$ | $(y-y_{\bar{y}})^2$ | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |



Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $3.85 = 12.00 a + 838.49 b + 4561.66 c$

or  $0.32 = a + 69.87 b + 380.14 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$436.43 = 69.87 a + 72611.28 b + 357910.54 c$

$6.25 = a + 1039.17 b + 5122.22 c$  Eq-2

or  $5.93 = 969.30 b + 4742.08 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$2193.91 = 4561.66 a + 357910.54 b + 2023759.22 c$

$0.48 = a + 78.46 b + 443.64 c$  Eq-4

$6.25 = a + 1039.17 b + 5122.22 c$  Eq-2

or  $5.76 = 960.71 b + 4678.57 c$  Eq-5(Eq2-Eq4)

$5.82 = 969.30 b + 4720.39 c$

$5.93 = 969.30 b + 4742.08 c$  (Eq-3)

or  $-0.11 = -21.69 c$

or  $c = 0.0050$

$b = -0.0184$

$a = -0.2980$

$y = -0.298 - 0.0184 x_1 + 0.005 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.7467$

$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.7168$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.6145$

$R_{yx_1x_2} = \sqrt{(1-(1-(R_{yx_1}^2)) * (1-(R_{yx_2}^2)))} = 0.8859$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 0.57$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 35.70$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 162.28$

**ANNEXURE -V/22**

**WEEKLY CORRELATION EQUATION FOR 22<sup>nd</sup> WEEK (28 MAY TO 03 JUN) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE -II**

| SL No. | Year         | 22 <sup>nd</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$        | $yx_2$          | $x_1x_2$         | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|---------------|-----------------|------------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |               |                 |                  |                  |                      |                  |                      |                  |                      |
| 1      | 1993         | 0.00                                | 41.69                 | 303.96                      | 1737.83         | 92389.47          | 0.00          | 0.00            | 12671.12         | -1.96            | 3.84                 | -13.53           | 183.18               | -36.46           | 1329.62              |
| 2      | 1994         | 0.37                                | 62.93                 | 214.68                      | 3959.96         | 46089.36          | 23.30         | 79.47           | 13509.69         | -1.59            | 2.53                 | 7.71             | 59.39                | -125.74          | 15809.54             |
| 3      | 1995         | 0.00                                | 31.34                 | 283.23                      | 982.00          | 80218.24          | 0.00          | 0.00            | 8875.48          | -1.96            | 3.84                 | -23.88           | 570.49               | -57.19           | 3270.93              |
| 4      | 1996         | 0.74                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 36.47         | 254.53          | 17003.22         | -1.22            | 1.49                 | -5.86            | 34.35                | 4.05             | 16.39                |
| 5      | 2000         | 10.99                               | 31.14                 | 564.93                      | 969.94          | 319145.49         | 342.28        | 6208.68         | 17594.07         | 9.03             | 81.53                | -24.08           | 579.75               | 224.51           | 50404.44             |
| 6      | 2002         | 1.83                                | 58.89                 | 281.02                      | 3468.47         | 78973.41          | 107.70        | 513.89          | 16550.44         | -0.13            | 0.02                 | 3.67             | 13.48                | -59.40           | 3528.15              |
| 7      | 2003         | 0.67                                | 121.37                | 385.51                      | 14730.73        | 148620.46         | 81.50         | 258.87          | 46789.82         | -1.29            | 1.66                 | 66.15            | 4375.62              | 45.09            | 2033.37              |
| 8      | 2005         | 0.00                                | 45.32                 | 274.77                      | 2053.73         | 75496.13          | 0.00          | 0.00            | 12451.87         | -1.96            | 3.84                 | -9.90            | 98.08                | -65.65           | 4310.54              |
| 9      | 2006         | 6.73                                | 36.67                 | 563.66                      | 1344.86         | 317709.95         | 246.65        | 3790.99         | 20670.61         | 4.77             | 22.71                | -18.55           | 344.08               | 223.24           | 49834.92             |
| 10     | 2008         | 0.11                                | 49.13                 | 341.18                      | 2413.42         | 116403.44         | 5.22          | 36.24           | 16760.96         | -1.85            | 3.44                 | -6.10            | 37.15                | 0.76             | 0.58                 |
| 11     | 2009         | 0.14                                | 79.60                 | 187.22                      | 6336.37         | 35050.59          | 10.76         | 25.30           | 14902.81         | -1.83            | 3.33                 | 24.38            | 594.36               | -153.20          | 23470.93             |
|        | <b>Total</b> | <b>21.57</b>                        | <b>607.44</b>         | <b>3744.62</b>              | <b>40433.78</b> | <b>1428755.18</b> | <b>853.86</b> | <b>11167.96</b> | <b>197780.10</b> | <b>0.00</b>      | <b>128.24</b>        | <b>0.00</b>      | <b>6889.94</b>       | <b>0.00</b>      | <b>154009.40</b>     |
| n = 11 | <b>Mean</b>  | <b>1.96</b>                         | <b>55.22</b>          | <b>340.42</b>               | $x_1^2$         | $x_2^2$           | $yx_1$        | $yx_2$          | $x_1x_2$         | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $21.57 = 11.00 a + 607.44 b + 3744.62 c$

or  $1.96 = a + 55.22 b + 340.42 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$853.86 = 55.22 a + 40433.78 b + 197780.10 c$

$15.46 = a + 732.21 b + 3581.56 c$  Eq-2

or  $13.50 = 676.99 b + 3241.14 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$11167.96 = 3744.62 a + 197780.10 b + 1428755.18 c$

$2.98 = a + 52.82 b + 381.55 c$  Eq-4

$15.46 = a + 732.21 b + 3581.56 c$  Eq-2

or  $12.48 = 679.39 b + 3200.01 c$  Eq-5(Eq2-Eq4)

$12.44 = 676.99 b + 3188.69 c$

$13.50 = 676.99 b + 3241.14 c$  (Eq-3)

or  $-1.07 = -52.45 c$

or  $c = 0.0203$

$b = -0.0774$

$a = -0.6861$

$y = -0.6861 - 0.0774 x_1 + 0.0203 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = -0.3586$

$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.8610$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = -0.2764$

$R_{yx_1x_2} = \sqrt{(1 - (R_{yx_1})^2) * (1 - (R_{yx_2})^2)} = 0.8801$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 3.58$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 26.25$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 124.10$

**ANNEXURE -V/44**

**WEEKLY CORRELATION EQUATION FOR 44<sup>th</sup> WEEK (29 OCT TO 04 NOV) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 44 <sup>th</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$          | $x_1x_2$         | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|----------------|-----------------|------------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |                |                 |                  |                  |                      |                  |                      |                  |                      |
| 1      | 1993         | 1.21                                | 41.69                 | 303.96                      | 1737.83         | 92389.47          | 50.41          | 367.55          | 12671.12         | -3.71            | 13.74                | -29.98           | 898.87               | -109.43          | 11975.49             |
| 2      | 1994         | 0.16                                | 62.93                 | 214.68                      | 3959.96         | 46089.36          | 9.97           | 34.02           | 13509.69         | -4.76            | 22.63                | -8.74            | 76.39                | -198.70          | 39483.53             |
| 3      | 1996         | 2.65                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 130.88         | 913.35          | 17003.22         | -2.26            | 5.13                 | -22.31           | 497.63               | -68.92           | 4750.01              |
| 4      | 1998         | 8.39                                | 106.57                | 535.04                      | 11357.61        | 286263.48         | 893.66         | 4486.55         | 57019.89         | 3.47             | 12.04                | 34.90            | 1218.27              | 121.65           | 14798.00             |
| 5      | 2000         | 12.28                               | 31.14                 | 564.93                      | 969.94          | 319145.49         | 382.36         | 6935.69         | 17594.07         | 7.36             | 54.19                | -40.52           | 1642.24              | 151.54           | 22964.58             |
| 6      | 2001         | 3.84                                | 208.98                | 469.85                      | 43670.72        | 220758.88         | 801.75         | 1802.62         | 98187.06         | -1.08            | 1.17                 | 137.31           | 18853.21             | 56.46            | 3187.83              |
| 7      | 2002         | 2.28                                | 58.89                 | 281.02                      | 3468.47         | 78973.41          | 134.51         | 641.84          | 16550.44         | -2.63            | 6.93                 | -12.77           | 163.19               | -132.37          | 17520.99             |
| 8      | 2004         | 2.93                                | 108.18                | 486.42                      | 11702.86        | 236608.52         | 316.50         | 1423.11         | 52621.26         | -1.99            | 3.96                 | 36.51            | 1333.08              | 73.04            | 5334.15              |
| 9      | 2005         | 2.25                                | 45.32                 | 274.77                      | 2053.73         | 75496.13          | 102.16         | 619.43          | 12451.87         | -2.66            | 7.08                 | -26.35           | 694.34               | -138.62          | 19216.44             |
| 10     | 2006         | 11.14                               | 36.67                 | 563.66                      | 1344.86         | 317709.95         | 408.46         | 6278.13         | 20670.61         | 6.22             | 38.72                | -35.00           | 1224.73              | 150.27           | 22580.68             |
| 11     | 2007         | 9.48                                | 61.16                 | 580.69                      | 3740.89         | 337205.07         | 579.64         | 5503.24         | 35516.85         | 4.56             | 20.80                | -10.51           | 110.37               | 167.30           | 27990.85             |
| 12     | 2008         | 2.39                                | 49.13                 | 341.18                      | 2413.42         | 116403.44         | 117.60         | 816.74          | 16760.96         | -2.52            | 6.36                 | -22.54           | 508.14               | -72.21           | 5214.21              |
|        | <b>Total</b> | <b>58.99</b>                        | <b>860.02</b>         | <b>4960.67</b>              | <b>88856.77</b> | <b>2245701.83</b> | <b>3927.91</b> | <b>29822.27</b> | <b>370557.06</b> | <b>0.00</b>      | <b>192.74</b>        | <b>0.00</b>      | <b>27220.45</b>      | <b>0.00</b>      | <b>195016.75</b>     |
| n = 12 | <b>Mean</b>  | <b>4.92</b>                         | <b>71.67</b>          | <b>413.39</b>               | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$          | $x_1x_2$         | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $58.99 = 12.00 a + 860.02 b + 4960.67 c$

or  $4.92 = a + 71.67 b + 413.39 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$3927.91 = 71.67 a + 88856.77 b + 370557.06 c$

$54.81 = a + 1239.83 b + 5170.44 c$  Eq-2

or  $49.89 = 1168.16 b + 4757.05 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$29822.27 = 4960.67 a + 370557.06 b + 2245701.83 c$

$6.01 = a + 74.70 b + 452.70 c$  Eq-4

$54.81 = a + 1239.83 b + 5170.44 c$  Eq-2

or  $48.79 = 1165.13 b + 4717.74 c$  Eq-5(Eq-2-Eq-4)

$48.92 = 1168.16 b + 4730.01 c$

$49.89 = 1168.16 b + 4757.05 c$  (Eq-3)

or  $-0.97 = -27.04 c$

or  $c = 0.0358$

$b = -0.1032$

$a = -2.4995$

$y = -2.4995 - 0.1032 x_1 + 0.0358 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = -0.1309$

$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.8866$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.2063$

$R_{yx_1x_2} = \sqrt{(1-(1-(R_{yx_1}^2)) * (1-(R_{yx_2}^2)))} = 0.8887$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 4.19$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 49.75$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 133.15$

**ANNEXURE -V/45**

**WEEKLY CORRELATION EQUATION FOR 45<sup>th</sup> WEEK (05 TO 11 NOV) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE -II**

| SL No. | Year         | 45 <sup>th</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$          | $x_1x_2$         | $y-y$       | $(y-y)^2$     | $x_1-x_1$   | $(x_1-x_1)^2$  | $x_2-x_2$   | $(x_2-x_2)^2$    |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|----------------|-----------------|------------------|-------------|---------------|-------------|----------------|-------------|------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |                |                 |                  |             |               |             |                |             |                  |
| 1      | 1993         | 2.32                                | 41.69                 | 303.96                      | 1737.83         | 92389.47          | 96.61          | 704.43          | 12671.12         | -1.96       | 3.83          | -12.50      | 156.30         | -63.44      | 4025.06          |
| 2      | 1994         | 0.46                                | 62.93                 | 214.68                      | 3959.96         | 46089.36          | 28.82          | 98.34           | 13509.69         | -3.82       | 14.56         | 8.74        | 76.37          | -152.72     | 23321.99         |
| 3      | 1996         | 0.34                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 16.57          | 115.60          | 17003.22         | -3.94       | 15.51         | -4.83       | 23.31          | -22.93      | 525.84           |
| 4      | 1997         | 2.46                                | 45.39                 | 399.82                      | 2060.32         | 159856.24         | 111.77         | 984.50          | 18148.13         | -1.81       | 3.28          | -8.80       | 77.41          | 32.42       | 1051.09          |
| 5      | 2000         | 17.85                               | 31.14                 | 564.93                      | 969.94          | 319145.49         | 555.92         | 10084.03        | 17594.07         | 13.58       | 184.31        | -23.05      | 531.09         | 197.53      | 39018.06         |
| 6      | 2002         | 0.52                                | 58.89                 | 281.02                      | 3468.47         | 78973.41          | 30.85          | 147.22          | 16550.44         | -3.75       | 14.06         | 4.70        | 22.13          | -86.38      | 7461.10          |
| 7      | 2003         | 2.99                                | 121.37                | 385.51                      | 14730.73        | 148620.46         | 362.73         | 1152.15         | 46789.82         | -1.29       | 1.65          | 67.18       | 4513.29        | 18.11       | 328.10           |
| 8      | 2005         | 0.03                                | 45.32                 | 274.77                      | 2053.73         | 75496.13          | 1.51           | 9.14            | 12451.87         | -4.24       | 17.99         | -8.87       | 78.69          | -92.63      | 8581.08          |
| 9      | 2006         | 13.64                               | 36.67                 | 563.66                      | 1344.86         | 317709.95         | 500.09         | 7686.40         | 20670.61         | 9.36        | 87.66         | -17.52      | 306.84         | 196.26      | 38517.17         |
| 10     | 2008         | 2.14                                | 49.13                 | 341.18                      | 2413.42         | 116403.44         | 104.91         | 728.61          | 16760.96         | -2.14       | 4.57          | -5.06       | 25.63          | -26.22      | 687.50           |
|        | <b>Total</b> | <b>42.74</b>                        | <b>541.89</b>         | <b>3674.00</b>              | <b>35175.73</b> | <b>1473342.59</b> | <b>1809.78</b> | <b>21710.43</b> | <b>192149.94</b> | <b>0.00</b> | <b>347.42</b> | <b>0.00</b> | <b>5811.07</b> | <b>0.00</b> | <b>123517.00</b> |
| n = 10 | <b>Mean</b>  | <b>4.27</b>                         | <b>54.19</b>          | <b>367.40</b>               | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$          | $x_1x_2$         | $y_1-y_1$   | $(y_1-y_1)^2$ | $x_1-x_1$   | $(x_1-x_1)^2$  | $x_2-x_2$   | $(x_2-x_2)^2$    |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $42.74 = 10.00 a + 541.89 b + 3674.00 c$

or  $4.27 = a + 54.19 b + 367.40 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

1809.78 = 54.19 a + 35175.73 b + 192149.94 c

33.40 = a + 649.13 b + 3545.91 c Eq-2

or 29.12 = 594.94 b + 3178.51 c Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

21710.43 = 3674.00 a + 192149.94 b + 1473342.59 c

5.91 = a + 52.30 b + 401.02 c Eq-4

33.40 = a + 649.13 b + 3545.91 c Eq-2

or 27.49 = 596.83 b + 3144.89 c Eq-5(Eq2-Eq4)

27.40 = 594.94 b + 3134.94 c

29.12 = 594.94 b + 3178.51 c (Eq-3)

or -1.72 = -43.57 c

or **c = 0.0395**  $R_{yx_1} = \frac{\sum(yx_1) - n(y \bar{x}_1)}{(n-1) \sigma_y \sigma_{x_1}} = -0.3564$

**b = -0.1622**  $R_{yx_2} = \frac{\sum(yx_2) - n(y \bar{x}_2)}{(n-1) \sigma_y \sigma_{x_2}} = 0.9170$

**a = -1.4567**  $R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1 \bar{x}_2)}{(n-1) \sigma_{x_1} \sigma_{x_2}} = -0.2591$

**y = -1.4567 - 0.1622 x<sub>1</sub> + 0.0395 x<sub>2</sub>**  $R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.9280$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 6.21$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 25.41$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 117.15$

**ANNEXURE -V/46**

**WEEKLY CORRELATION EQUATION FOR 46<sup>th</sup> WEEK (12 TO 18 NOV) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 46 <sup>th</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$          | $x_1x_2$         | $y-y_1$      | $(y-y_1)^2$      | $x_1-x_{11}$ | $(x_1-x_{11})^2$ | $x_2-x_{21}$ | $(x_2-x_{21})^2$ |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|----------------|-----------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |                |                 |                  |              |                  |              |                  |              |                  |
| 1      | 1993         | 0.85                                | 41.69                 | 303.96                      | 1737.83         | 92389.47          | 35.35          | 257.77          | 12671.12         | -1.66        | 2.76             | -14.45       | 208.75           | -41.64       | 1733.63          |
| 2      | 1994         | 0.85                                | 62.93                 | 214.68                      | 3959.96         | 46089.36          | 53.64          | 182.99          | 13509.69         | -1.66        | 2.75             | 6.79         | 46.14            | -130.91      | 17137.16         |
| 3      | 1996         | 0.38                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 18.79          | 131.14          | 17003.22         | -2.13        | 4.54             | -6.77        | 45.90            | -1.12        | 1.26             |
| 4      | 1997         | 2.10                                | 45.39                 | 399.82                      | 2060.32         | 159856.24         | 95.36          | 839.97          | 18148.13         | -0.41        | 0.17             | -10.74       | 115.45           | 54.23        | 2940.56          |
| 5      | 2000         | 14.04                               | 31.14                 | 564.93                      | 969.94          | 319145.49         | 437.20         | 7930.52         | 17594.07         | 11.53        | 132.88           | -24.99       | 624.58           | 219.34       | 48108.43         |
| 6      | 2002         | 0.79                                | 58.89                 | 281.02                      | 3468.47         | 78973.41          | 46.33          | 221.07          | 16550.44         | -1.72        | 2.97             | 2.76         | 7.61             | -64.57       | 4169.44          |
| 7      | 2003         | 2.99                                | 121.37                | 385.51                      | 14730.73        | 148620.46         | 362.73         | 1152.15         | 46789.82         | 0.48         | 0.23             | 65.23        | 4255.57          | 39.92        | 1593.60          |
| 8      | 2005         | 0.03                                | 45.32                 | 274.77                      | 2053.73         | 75496.13          | 1.51           | 9.14            | 12451.87         | -2.48        | 6.14             | -10.82       | 117.01           | -70.83       | 5016.56          |
| 9      | 2008         | 0.57                                | 49.13                 | 341.18                      | 2413.42         | 116403.44         | 27.94          | 194.05          | 16760.96         | -1.94        | 3.77             | -7.01        | 49.13            | -4.41        | 19.48            |
|        | <b>Total</b> | <b>22.60</b>                        | <b>505.22</b>         | <b>3110.34</b>              | <b>33830.87</b> | <b>1155632.64</b> | <b>1078.85</b> | <b>10918.79</b> | <b>171479.33</b> | <b>0.00</b>  | <b>156.21</b>    | <b>0.00</b>  | <b>5470.14</b>   | <b>0.00</b>  | <b>80720.14</b>  |
| n = 9  | <b>Mean</b>  | <b>2.51</b>                         | <b>56.14</b>          | <b>345.59</b>               | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$          | $x_1x_2$         | $y_1-y_{11}$ | $(y_1-y_{11})^2$ | $x_1-x_{11}$ | $(x_1-x_{11})^2$ | $x_2-x_{21}$ | $(x_2-x_{21})^2$ |



Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $22.60 = 9.00a + 505.22b + 3110.34c$

or  $2.51 = a + 56.14b + 345.59c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$1078.85 = 56.14a + 33830.87b + 171479.33c$

$19.22 = a + 602.66b + 3054.74c$  Eq-2

or  $16.71 = 546.53b + 2709.15c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$10918.79 = 3110.34a + 171479.33b + 1155632.64c$

$3.51 = a + 55.13b + 371.55c$  Eq-4

$19.22 = a + 602.66b + 3054.74c$  Eq-2

or  $15.71 = 547.53b + 2683.19c$  Eq-5(Eq-2-Eq-4)

$15.68 = 546.53b + 2678.28c$

$16.71 = 546.53b + 2709.15c$  (Eq-3)

or  $-1.03 = -30.87c$

or  $c = 0.0333$

$b = -0.1346$

$a = -1.4484$

$y = -1.4484 - 0.1346x_1 + 0.0333x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = -0.2052$

$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.8756$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = -0.1485$

$R_{yx_1x_2} = \sqrt{(1 - (R_{yx_1})^2) * (1 - (R_{yx_2})^2)} = 0.8812$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 4.42$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 26.15$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 100.45$

**ANNEXURE -V/47**

**WEEKLY CORRELATION EQUATION FOR 47<sup>th</sup> WEEK (19 TO 25 NOV) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 47 <sup>th</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$        | $yx_2$         | $x_1x_2$         | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|---------------|----------------|------------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |               |                |                  |                  |                      |                  |                      |                  |                      |
| 1      | 1993         | 0.42                                | 41.69                 | 303.96                      | 1737.83         | 92389.47          | 17.68         | 128.89         | 12671.12         | -0.28            | 0.08                 | -17.41           | 303.11               | -74.26           | 5515.11              |
| 2      | 1994         | 0.57                                | 62.93                 | 214.68                      | 3959.96         | 46089.36          | 35.76         | 121.99         | 13509.69         | -0.13            | 0.02                 | 3.83             | 14.67                | -163.54          | 26743.96             |
| 3      | 1996         | 0.38                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 18.81         | 131.27         | 17003.22         | -0.32            | 0.10                 | -9.74            | 94.80                | -33.75           | 1139.16              |
| 4      | 1997         | 0.84                                | 45.39                 | 399.82                      | 2060.32         | 159856.24         | 38.34         | 337.73         | 18148.13         | 0.14             | 0.02                 | -13.71           | 187.87               | 21.60            | 466.57               |
| 5      | 2000         | 0.61                                | 31.14                 | 564.93                      | 969.94          | 319145.49         | 18.84         | 341.82         | 17594.07         | -0.10            | 0.01                 | -27.95           | 781.40               | 186.71           | 34860.44             |
| 6      | 2002         | 0.69                                | 58.89                 | 281.02                      | 3468.47         | 78973.41          | 40.51         | 193.32         | 16550.44         | -0.01            | 0.00                 | -0.20            | 0.04                 | -97.20           | 9447.46              |
| 7      | 2003         | 1.65                                | 121.37                | 385.51                      | 14730.73        | 148620.46         | 199.94        | 635.06         | 46789.82         | 0.95             | 0.89                 | 62.27            | 3877.90              | 7.29             | 53.19                |
| 8      | 2004         | 1.78                                | 108.18                | 486.42                      | 11702.86        | 236608.52         | 192.20        | 864.23         | 52621.26         | 1.07             | 1.16                 | 49.08            | 2409.08              | 108.20           | 11708.12             |
| 9      | 2005         | 0.03                                | 45.32                 | 274.77                      | 2053.73         | 75496.13          | 1.51          | 9.14           | 12451.87         | -0.67            | 0.45                 | -13.78           | 189.87               | -103.45          | 10702.84             |
| 10     | 2006         | 0.53                                | 36.67                 | 563.66                      | 1344.86         | 317709.95         | 19.36         | 297.58         | 20670.61         | -0.17            | 0.03                 | -22.43           | 502.89               | 185.44           | 34387.07             |
| 11     | 2008         | 0.22                                | 49.13                 | 341.18                      | 2413.42         | 116403.44         | 11.02         | 76.56          | 16760.96         | -0.48            | 0.23                 | -9.97            | 99.42                | -37.04           | 1372.01              |
|        | <b>Total</b> | <b>7.72</b>                         | <b>650.07</b>         | <b>4160.42</b>              | <b>46878.60</b> | <b>1709951.11</b> | <b>593.97</b> | <b>3137.58</b> | <b>244771.20</b> | <b>0.00</b>      | <b>2.98</b>          | <b>0.00</b>      | <b>8461.06</b>       | <b>0.00</b>      | <b>136395.94</b>     |
| n = 11 | <b>Mean</b>  | <b>0.70</b>                         | <b>59.10</b>          | <b>378.22</b>               | $x_1^2$         | $x_2^2$           | $yx_1$        | $yx_2$         | $x_1x_2$         | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $7.72 = 11.00 a + 650.07 b + 4160.42 c$

or  $0.70 = a + 59.10 b + 378.22 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$593.97 = 59.10 a + 46878.60 b + 244771.20 c$

$10.05 = a + 793.24 b + 4141.83 c$  Eq-2

or  $9.35 = 734.15 b + 3763.61 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$3137.58 = 4160.42 a + 244771.20 b + 1709951.11 c$

$0.75 = a + 58.83 b + 411.00 c$  Eq-4

$10.05 = a + 793.24 b + 4141.83 c$  Eq-2

or  $9.30 = 734.41 b + 3730.82 c$  Eq-5(Eq-2-Eq-4)

$9.29 = 734.15 b + 3729.48 c$

$9.35 = 734.15 b + 3763.61 c$  (Eq-3)

or  $-0.06 = -34.13 c$

or  $c = 0.0016$

$b = 0.0044$

$a = -0.1733$

$y = -0.1733 + 0.0044 x_1 + 0.0016 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.8669$

$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.3410$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = -0.0323$

$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.8834$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 0.55$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 29.09$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 116.79$

**ANNEXURE -V/48**

**WEEKLY CORRELATION EQUATION FOR 48<sup>th</sup> WEEK (26 NOV TO 02 DEC) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE -II**

| SL No. | Year         | 48 <sup>th</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$          | $x_2^2$           | $yx_1$        | $yx_2$         | $x_1x_2$         | $y-y_1$     | $(y-y_1)^2$   | $x_1-x_1$   | $(x_1-x_1)^2$   | $x_2-x_2$   | $(x_2-x_2)^2$    |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|------------------|-------------------|---------------|----------------|------------------|-------------|---------------|-------------|-----------------|-------------|------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                  |                   |               |                |                  |             |               |             |                 |             |                  |
| 1      | 1993         | 0.36                                | 41.69                 | 303.96                      | 1737.83          | 92389.47          | 15.01         | 109.45         | 12671.12         | -0.17       | 0.03          | -38.99      | 1520.31         | -76.28      | 5819.35          |
| 2      | 1994         | 0.28                                | 62.93                 | 214.68                      | 3959.96          | 46089.36          | 17.88         | 61.00          | 13509.69         | -0.25       | 0.06          | -17.75      | 315.07          | -165.56     | 27409.02         |
| 3      | 1997         | 0.63                                | 45.39                 | 399.82                      | 2060.32          | 159856.24         | 28.76         | 253.30         | 18148.13         | 0.10        | 0.01          | -35.29      | 1245.22         | 19.58       | 383.35           |
| 4      | 1999         | 1.11                                | 143.03                | 759.71                      | 20456.69         | 577163.06         | 158.87        | 843.89         | 108659.32        | 0.58        | 0.34          | 62.35       | 3887.34         | 379.47      | 143998.58        |
| 5      | 2000         | 0.47                                | 31.14                 | 564.93                      | 969.94           | 319145.49         | 14.56         | 264.13         | 17594.07         | -0.06       | 0.00          | -49.53      | 2453.67         | 184.69      | 34109.88         |
| 6      | 2001         | 1.11                                | 208.98                | 469.85                      | 43670.72         | 220758.88         | 231.27        | 519.98         | 98187.06         | 0.58        | 0.33          | 128.30      | 16460.12        | 89.61       | 8029.74          |
| 7      | 2002         | 0.52                                | 58.89                 | 281.02                      | 3468.47          | 78973.41          | 30.39         | 144.99         | 16550.44         | -0.01       | 0.00          | -21.78      | 474.57          | -99.22      | 9844.40          |
| 8      | 2003         | 1.11                                | 121.37                | 385.51                      | 14730.73         | 148620.46         | 134.82        | 428.23         | 46789.82         | 0.58        | 0.34          | 40.69       | 1655.82         | 5.27        | 27.80            |
| 9      | 2005         | 0.00                                | 45.32                 | 274.77                      | 2053.73          | 75496.13          | 0.00          | 0.00           | 12451.87         | -0.53       | 0.28          | -35.36      | 1250.35         | -105.48     | 11125.07         |
| 10     | 2008         | 0.23                                | 49.13                 | 341.18                      | 2413.42          | 116403.44         | 11.38         | 79.02          | 16760.96         | -0.30       | 0.09          | -31.55      | 995.52          | -39.06      | 1525.80          |
| 11     | 2009         | 0.00                                | 79.60                 | 187.22                      | 6336.37          | 35050.59          | 0.00          | 0.00           | 14902.81         | -0.53       | 0.28          | -1.08       | 1.16            | -193.02     | 37257.88         |
|        | <b>Total</b> | <b>5.82</b>                         | <b>887.46</b>         | <b>4182.65</b>              | <b>101858.18</b> | <b>1869946.53</b> | <b>642.94</b> | <b>2703.98</b> | <b>376225.30</b> | <b>0.00</b> | <b>1.76</b>   | <b>0.00</b> | <b>30259.15</b> | <b>0.00</b> | <b>279530.87</b> |
| n = 11 | <b>Mean</b>  | <b>0.53</b>                         | <b>80.68</b>          | <b>380.24</b>               | $x_1^2$          | $x_2^2$           | $yx_1$        | $yx_2$         | $x_1x_2$         | $y_1-y_1$   | $(y_1-y_1)^2$ | $x_1-x_1$   | $(x_1-x_1)^2$   | $x_2-x_2$   | $(x_2-x_2)^2$    |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = a \sum 1 + b \sum x_1 + c \sum x_2$$

or  $5.82 = 11.00 a + 887.46 b + 4182.65 c$

or  $0.53 = a + 80.68 b + 380.24 c$  Eq-1

$$\sum yx_1 = a \sum x_1 + b \sum x_1^2 + c \sum x_1x_2$$

$642.94 = 80.68 a + 101858.18 b + 376225.30 c$

$7.97 = a + 1262.52 b + 4663.27 c$  Eq-2

or  $7.44 = 1181.84 b + 4283.03 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a \sum x_2 + c \sum x_2^2 + b \sum x_1x_2$$

$2703.98 = 4182.65 a + 376225.30 b + 1869946.53 c$

$0.65 = a + 89.95 b + 447.07 c$  Eq-4

$7.97 = a + 1262.52 b + 4663.27 c$  Eq-2

or  $7.32 = 1172.57 b + 4216.20 c$  Eq-5(Eq-2-Eq-4)

$7.38 = 1181.84 b + 4249.53 c$

$7.44 = 1181.84 b + 4283.03 c$  (Eq-3)

or  $-0.06 = -33.50 c$

or  $c = 0.0018$

$b = -0.0001$

$a = -0.1345$

$y = -0.1345 - 0.0001 x_1 + 0.0018 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.7505$

$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.6989$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.4216$

$R_{yx_1x_2} = \sqrt{(1 - (R_{yx_1})^2) * (1 - (R_{yx_2})^2)} = 0.8812$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 0.42$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 55.01$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 167.19$

**ANNEXURE -V/49**

**WEEKLY CORRELATION EQUATION FOR 49<sup>th</sup> WEEK (03 TO 09 DEC) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 49 <sup>th</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$                   | $x_2^2$                   | $yx_1$                   | $yx_2$                   | $x_1x_2$                   | $y-y\bar{y}$                       | $(y-y\bar{y})^2$                       | $x_1-x\bar{x}_1$                   | $(x_1-x\bar{x}_1)^2$                   | $x_2-x\bar{x}_2$                   | $(x_2-x\bar{x}_2)^2$                   |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|---------------------------|---------------------------|--------------------------|--------------------------|----------------------------|------------------------------------|--|------------------------------------|--|------------------------------------|--|
|        |              | y                                   | $x_1$                 | $x_2$                       |                           |                           |                          |                          |                            |                                    |  |                                    |  |                                    |  |
| 1      | 1993         | 0.47                                | 41.69                 | 303.96                      | 1737.83                   | 92389.47                  | 19.55                    | 142.53                   | 12671.12                   | -0.15                              | 0.02                                   | -41.94                             | 1759.00                                | -84.47                             | 7134.44                                |
| 2      | 1994         | 0.00                                | 62.93                 | 214.68                      | 3959.96                   | 46089.36                  | 0.00                     | 0.00                     | 13509.69                   | -0.61                              | 0.38                                   | -20.70                             | 428.47                                 | -173.74                            | 30184.77                               |
| 3      | 1996         | 0.60                                | 49.36                 | 344.47                      | 2436.48                   | 118658.64                 | 29.74                    | 207.58                   | 17003.22                   | -0.01                              | 0.00                                   | -34.27                             | 1174.23                                | -43.95                             | 1931.90                                |
| 4      | 1998         | 1.11                                | 106.57                | 535.04                      | 11357.61                  | 286263.48                 | 118.38                   | 594.32                   | 57019.89                   | 0.50                               | 0.25                                   | 22.94                              | 526.44                                 | 146.61                             | 21495.66                               |
| 5      | 1999         | 1.11                                | 143.03                | 759.71                      | 20456.69                  | 577163.06                 | 158.87                   | 843.89                   | 108659.32                  | 0.50                               | 0.25                                   | 59.40                              | 3528.26                                | 371.29                             | 137856.64                              |
| 6      | 2001         | 1.43                                | 208.98                | 469.85                      | 43670.72                  | 220758.88                 | 299.28                   | 672.90                   | 98187.06                   | 0.82                               | 0.67                                   | 125.35                             | 15712.04                               | 81.43                              | 6630.50                                |
| 7      | 2002         | 0.00                                | 58.89                 | 281.02                      | 3468.47                   | 78973.41                  | 0.00                     | 0.00                     | 16550.44                   | -0.61                              | 0.38                                   | -24.73                             | 611.77                                 | -107.40                            | 11534.74                               |
| 8      | 2003         | 1.11                                | 121.37                | 385.51                      | 14730.73                  | 148620.46                 | 134.82                   | 428.23                   | 46789.82                   | 0.50                               | 0.25                                   | 37.74                              | 1424.49                                | -2.91                              | 8.46                                   |
| 9      | 2005         | 0.07                                | 45.32                 | 274.77                      | 2053.73                   | 75496.13                  | 3.02                     | 18.28                    | 12451.87                   | -0.55                              | 0.30                                   | -38.31                             | 1467.62                                | -113.66                            | 12917.77                               |
| 10     | 2006         | 1.28                                | 36.67                 | 563.66                      | 1344.86                   | 317709.95                 | 46.82                    | 719.55                   | 20670.61                   | 0.66                               | 0.44                                   | -46.96                             | 2204.81                                | 175.24                             | 30707.54                               |
| 11     | 2008         | 0.19                                | 49.13                 | 341.18                      | 2413.42                   | 116403.44                 | 9.55                     | 66.33                    | 16760.96                   | -0.42                              | 0.18                                   | -34.50                             | 1190.33                                | -47.24                             | 2231.85                                |
| 12     | 2009         | 0.00                                | 79.60                 | 187.22                      | 6336.37                   | 35050.59                  | 0.00                     | 0.00                     | 14902.81                   | -0.61                              | 0.38                                   | -4.03                              | 16.21                                  | -201.20                            | 40483.02                               |
|        | <b>Total</b> | <b>7.37</b>                         | <b>1003.53</b>        | <b>4661.06</b>              | <b>113966.87</b>          | <b>2113576.87</b>         | <b>820.03</b>            | <b>3693.60</b>           | <b>435176.82</b>           | <b>0.00</b>                        | <b>3.48</b>                            | <b>0.00</b>                        | <b>30043.69</b>                        | <b>0.00</b>                        | <b>303117.30</b>                       |
| n = 12 | <b>Mean</b>  | <b>0.61</b>                         | <b>83.63</b>          | <b>388.42</b>               | <b><math>x_1^2</math></b> | <b><math>x_2^2</math></b> | <b><math>yx_1</math></b> | <b><math>yx_2</math></b> | <b><math>x_1x_2</math></b> | <b><math>y_1-y\bar{y}_1</math></b> | <b><math>(y_1-y\bar{y}_1)^2</math></b> | <b><math>x_1-x\bar{x}_1</math></b> | <b><math>(x_1-x\bar{x}_1)^2</math></b> | <b><math>x_2-x\bar{x}_2</math></b> | <b><math>(x_2-x\bar{x}_2)^2</math></b> |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $7.37 = 12.00 a + 1003.53 b + 4661.06 c$

or  $0.61 = a + 83.63 b + 388.42 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$820.03 = 83.63 a + 113966.87 b + 435176.82 c$

$9.81 = a + 1362.79 b + 5203.74 c$  Eq-2

or  $9.19 = 1279.16 b + 4815.32 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$3693.60 = 4661.06 a + 435176.82 b + 2113576.87 c$

$0.79 = a + 93.36 b + 453.45 c$  Eq-4

$9.81 = a + 1362.79 b + 5203.74 c$  Eq-2

or  $9.01 = 1269.42 b + 4750.28 c$  Eq-5(Eq-2-Eq-4)

$9.08 = 1279.16 b + 4786.72 c$

$9.19 = 1279.16 b + 4815.32 c$  (Eq-3)

or  $-0.11 = -28.60 c$

or  $c = 0.0038$

$b = -0.0071$

$a = -0.2666$

$y = -0.2666 - 0.0071 x_1 + 0.0038 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(y \bar{x}_1)}{(n-1) \sigma_y \sigma_{x_1}} = 0.6293$

$R_{yx_2} = \frac{\sum(yx_2) - n(y \bar{x}_2)}{(n-1) \sigma_y \sigma_{x_2}} = 0.8081$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1 \bar{x}_2)}{(n-1) \sigma_{x_1} \sigma_{x_2}} = 0.4756$

$R_{yx_1x_2} = \sqrt{(1 - (R_{yx_1})^2) * (1 - (R_{yx_2})^2)} = 0.8890$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 0.56$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 52.26$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 166.00$

**ANNEXURE -V/50**

**WEEKLY CORRELATION EQUATION FOR 50<sup>th</sup> WEEK (10 TO 16 DEC) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 50 <sup>th</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$          | $x_2^2$           | $yx_1$        | $yx_2$         | $x_1x_2$         | $y-y_{\bar{y}}$   | $(y-y_{\bar{y}})^2$   | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|------------------|-------------------|---------------|----------------|------------------|-------------------|-----------------------|---------------------|-------------------------|---------------------|-------------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                  |                   |               |                |                  |                   |                       |                     |                         |                     |                         |
| 1      | 1993         | 0.94                                | 41.69                 | 303.96                      | 1737.83          | 92389.47          | 39.09         | 285.05         | 12671.12         | 0.26              | 0.07                  | -44.57              | 1986.54                 | -62.97              | 3964.94                 |
| 2      | 1994         | 0.00                                | 62.93                 | 214.68                      | 3959.96          | 46089.36          | 0.00          | 0.00           | 13509.69         | -0.68             | 0.46                  | -23.33              | 544.27                  | -152.24             | 23176.96                |
| 3      | 1995         | 0.56                                | 31.34                 | 283.23                      | 982.00           | 80218.24          | 17.40         | 157.28         | 8875.48          | -0.12             | 0.01                  | -54.92              | 3016.32                 | -83.70              | 7005.00                 |
| 4      | 1998         | 1.11                                | 106.57                | 535.04                      | 11357.61         | 286263.48         | 118.38        | 594.32         | 57019.89         | 0.43              | 0.19                  | 20.31               | 412.67                  | 168.11              | 28261.58                |
| 5      | 1999         | 1.36                                | 143.03                | 759.71                      | 20456.69         | 577163.06         | 194.17        | 1031.38        | 108659.32        | 0.68              | 0.46                  | 56.77               | 3222.72                 | 392.79              | 154282.67               |
| 6      | 2001         | 1.63                                | 208.98                | 469.85                      | 43670.72         | 220758.88         | 341.51        | 767.84         | 98187.06         | 0.96              | 0.92                  | 122.72              | 15059.59                | 102.93              | 10593.70                |
| 7      | 2002         | 0.00                                | 58.89                 | 281.02                      | 3468.47          | 78973.41          | 0.00          | 0.00           | 16550.44         | -0.68             | 0.46                  | -27.36              | 748.80                  | -85.90              | 7379.17                 |
| 8      | 2003         | 1.62                                | 121.37                | 385.51                      | 14730.73         | 148620.46         | 196.84        | 625.23         | 46789.82         | 0.95              | 0.89                  | 35.11               | 1232.88                 | 18.59               | 345.55                  |
| 9      | 2005         | 0.03                                | 45.32                 | 274.77                      | 2053.73          | 75496.13          | 1.51          | 9.14           | 12451.87         | -0.64             | 0.41                  | -40.94              | 1676.06                 | -92.16              | 8493.20                 |
| 10     | 2008         | 0.19                                | 49.13                 | 341.18                      | 2413.42          | 116403.44         | 9.43          | 65.49          | 16760.96         | -0.48             | 0.23                  | -37.13              | 1378.74                 | -25.74              | 662.79                  |
| 11     | 2009         | 0.00                                | 79.60                 | 187.22                      | 6336.37          | 35050.59          | 0.00          | 0.00           | 14902.81         | -0.68             | 0.46                  | -6.66               | 44.31                   | -179.71             | 32294.29                |
|        | <b>Total</b> | <b>7.44</b>                         | <b>948.84</b>         | <b>4036.17</b>              | <b>111167.53</b> | <b>1757426.52</b> | <b>918.33</b> | <b>3535.72</b> | <b>406378.48</b> | <b>0.00</b>       | <b>4.57</b>           | <b>0.00</b>         | <b>29322.89</b>         | <b>0.00</b>         | <b>276459.86</b>        |
| n = 11 | <b>Mean</b>  | <b>0.68</b>                         | <b>86.26</b>          | <b>366.92</b>               | $x_1^2$          | $x_2^2$           | $yx_1$        | $yx_2$         | $x_1x_2$         | $y_1-y_{\bar{y}}$ | $(y_1-y_{\bar{y}})^2$ | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |



Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $7.44 = 11.00 a + 948.84 b + 4036.17 c$

or  $0.68 = a + 86.26 b + 366.92 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$918.33 = 86.26 a + 111167.53 b + 406378.48 c$

$10.65 = a + 1288.78 b + 4711.20 c$  Eq-2

or  $9.97 = 1202.52 b + 4344.28 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$3535.72 = 4036.17 a + 406378.48 b + 1757426.52 c$

$0.88 = a + 100.68 b + 435.42 c$  Eq-4

$10.65 = a + 1288.78 b + 4711.20 c$  Eq-2

or  $9.77 = 1188.10 b + 4275.78 c$  Eq-5(Eq-2-Eq-4)

$9.89 = 1202.52 b + 4327.70 c$

$9.97 = 1202.52 b + 4344.28 c$  (Eq-3)

or  $-0.08 = -16.58 c$

or  $c = 0.0049$

$b = -0.0093$

$a = -0.3080$

$y = -0.308 - 0.0093 x_1 + 0.004 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.7551$

$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.7162$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.6467$

$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.8892$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 0.68$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 54.15$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 166.27$

**ANNEXURE -V/51**

**WEEKLY CORRELATION EQUATION FOR 51<sup>st</sup> WEEK (17 TO 23 DEC) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 51 <sup>st</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$          | $x_2^2$           | $yx_1$        | $yx_2$         | $x_1x_2$         | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|-----------------------|-----------------------------|------------------|-------------------|---------------|----------------|------------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                 | $x_2$                       |                  |                   |               |                |                  |                  |                      |                  |                      |                  |                      |
| 1      | 1993         | 0.74                                | 41.69                 | 303.96                      | 1737.83          | 92389.47          | 30.86         | 225.04         | 12671.12         | 0.12             | 0.01                 | -38.99           | 1520.58              | -92.44           | 8544.69              |
| 2      | 1994         | 0.00                                | 62.93                 | 214.68                      | 3959.96          | 46089.36          | 0.00          | 0.00           | 13509.69         | -0.63            | 0.39                 | -17.75           | 315.19               | -181.71          | 33018.36             |
| 3      | 1995         | 0.48                                | 31.34                 | 283.23                      | 982.00           | 80218.24          | 14.92         | 134.83         | 8875.48          | -0.15            | 0.02                 | -49.35           | 2434.93              | -113.17          | 12806.46             |
| 4      | 1996         | 0.49                                | 49.36                 | 344.47                      | 2436.48          | 118658.64         | 24.32         | 169.71         | 17003.22         | -0.13            | 0.02                 | -31.32           | 981.02               | -51.93           | 2696.23              |
| 5      | 1997         | 0.55                                | 45.39                 | 399.82                      | 2060.32          | 159856.24         | 24.78         | 218.31         | 18148.13         | -0.08            | 0.01                 | -35.29           | 1245.47              | 3.43             | 11.74                |
| 6      | 1998         | 1.11                                | 106.57                | 535.04                      | 11357.61         | 286263.48         | 118.38        | 594.32         | 57019.89         | 0.49             | 0.24                 | 25.89            | 670.30               | 138.64           | 19221.63             |
| 7      | 1999         | 2.19                                | 143.03                | 759.71                      | 20456.69         | 577163.06         | 312.65        | 1660.70        | 108659.32        | 1.56             | 2.44                 | 62.35            | 3886.90              | 363.32           | 132000.41            |
| 9      | 2001         | 0.74                                | 208.98                | 469.85                      | 43670.72         | 220758.88         | 155.49        | 349.59         | 98187.06         | 0.12             | 0.01                 | 128.29           | 16459.23             | 73.46            | 5395.78              |
| 11     | 2003         | 0.67                                | 121.37                | 385.51                      | 14730.73         | 148620.46         | 81.01         | 257.31         | 46789.82         | 0.04             | 0.00                 | 40.69            | 1655.54              | -10.88           | 118.39               |
| 12     | 2004         | 0.00                                | 108.18                | 486.42                      | 11702.86         | 236608.52         | 0.00          | 0.00           | 52621.26         | -0.63            | 0.39                 | 27.50            | 756.13               | 90.03            | 8105.46              |
| 13     | 2005         | 0.30                                | 45.32                 | 274.77                      | 2053.73          | 75496.13          | 13.57         | 82.28          | 12451.87         | -0.33            | 0.11                 | -35.36           | 1250.59              | -121.63          | 14793.44             |
| 14     | 2006         | 1.29                                | 36.67                 | 563.66                      | 1344.86          | 317709.95         | 47.30         | 727.01         | 20670.61         | 0.66             | 0.44                 | -44.01           | 1936.85              | 167.26           | 27977.17             |
| 16     | 2008         | 0.20                                | 49.13                 | 341.18                      | 2413.42          | 116403.44         | 9.81          | 68.14          | 16760.96         | -0.43            | 0.18                 | -31.56           | 995.74               | -55.21           | 3048.63              |
| 17     | 2009         | 0.00                                | 79.60                 | 187.22                      | 6336.37          | 35050.59          | 0.00          | 0.00           | 14902.81         | -0.63            | 0.39                 | -1.08            | 1.17                 | -209.18          | 43754.53             |
|        | <b>Total</b> | <b>8.75</b>                         | <b>1129.55</b>        | <b>5549.51</b>              | <b>125243.58</b> | <b>2511286.47</b> | <b>833.09</b> | <b>4487.24</b> | <b>498271.26</b> | <b>0.00</b>      | <b>4.65</b>          | <b>0.00</b>      | <b>34109.64</b>      | <b>0.00</b>      | <b>311492.93</b>     |
| n = 14 | <b>Mean</b>  | <b>0.63</b>                         | <b>80.68</b>          | <b>396.39</b>               | $x_1^2$          | $x_2^2$           | $yx_1$        | $yx_2$         | $x_1x_2$         | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $8.75 = 14.00 a + 1129.55 b + 5549.51 c$

or  $0.63 = a + 80.68 b + 396.39 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$833.09 = 80.68 a + 125243.58 b + 498271.26 c$

$10.33 = a + 1552.31 b + 6175.75 c$  Eq-2

or  $9.70 = 1471.63 b + 5779.36 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$4487.24 = 5549.51 a + 498271.26 b + 2511286.47 c$

$0.81 = a + 89.79 b + 452.52 c$  Eq-4

$10.33 = a + 1552.31 b + 6175.75 c$  Eq-2

or  $9.52 = 1462.53 b + 5723.23 c$  Eq-5(Eq-2-Eq-4)

$9.58 = 1471.63 b + 5758.86 c$

$9.70 = 1471.63 b + 5779.36 c$  (Eq-3)

or  $-0.12 = -20.50 c$

or  $c = 0.0061$

$b = -0.0172$

$a = -0.3884$

$$y = -0.3884 - 0.0172 x_1 + 0.0061 x_2$$

$$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.3188$$

$$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.8459$$

$$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.4902$$

$$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.8628$$

$$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 0.60$$

$$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 51.22$$

$$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 154.79$$

**ANNEXURE -V/52**

**WEEKLY CORRELATION EQUATION FOR 52<sup>nd</sup> WEEK (24 TO 31 DEC) RUNOFF FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No.   | Year         | 52 <sup>nd</sup> Week Runoff in MCM | October Runoff in Ham | Total Monsoon Runoff in Ham | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$          | $x_1x_2$         | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|----------|--------------|-------------------------------------|-----------------------|-----------------------------|-----------------|-------------------|----------------|-----------------|------------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|          |              | y                                   | $x_1$                 | $x_2$                       |                 |                   |                |                 |                  |                  |                      |                  |                      |                  |                      |
| 1        | 1993         | 1.52                                | 41.69                 | 303.96                      | 1737.83         | 92389.47          | 63.18          | 460.65          | 12671.12         | -0.68            | 0.46                 | -38.63           | 1492.64              | -53.22           | 2831.88              |
| 2        | 1994         | 0.00                                | 62.93                 | 214.68                      | 3959.96         | 46089.36          | 0.00           | 0.00            | 13509.69         | -2.19            | 4.81                 | -17.39           | 302.54               | -142.49          | 20302.66             |
| 3        | 1996         | 1.14                                | 49.36                 | 344.47                      | 2436.48         | 118658.64         | 56.08          | 391.37          | 17003.22         | -1.06            | 1.12                 | -30.96           | 958.60               | -12.70           | 161.37               |
| 4        | 2001         | 2.61                                | 208.98                | 469.85                      | 43670.72        | 220758.88         | 544.85         | 1225.01         | 98187.06         | 0.41             | 0.17                 | 128.65           | 16551.70             | 112.68           | 12696.36             |
| 5        | 2003         | 2.60                                | 121.37                | 385.51                      | 14730.73        | 148620.46         | 315.60         | 1002.44         | 46789.82         | 0.41             | 0.17                 | 41.05            | 1684.96              | 28.34            | 803.24               |
| 6        | 2004         | 6.70                                | 108.18                | 486.42                      | 11702.86        | 236608.52         | 724.59         | 3258.10         | 52621.26         | 4.51             | 20.30                | 27.86            | 776.06               | 129.25           | 16706.20             |
| 7        | 2005         | 0.30                                | 45.32                 | 274.77                      | 2053.73         | 75496.13          | 13.57          | 82.28           | 12451.87         | -1.89            | 3.58                 | -35.00           | 1225.27              | -82.41           | 6790.77              |
| 8        | 2006         | 6.23                                | 36.67                 | 563.66                      | 1344.86         | 317709.95         | 228.65         | 3514.35         | 20670.61         | 4.04             | 16.34                | -43.65           | 1905.30              | 206.49           | 42636.43             |
| 9        | 2008         | 0.19                                | 49.13                 | 341.18                      | 2413.42         | 116403.44         | 9.55           | 66.33           | 16760.96         | -2.00            | 3.99                 | -31.20           | 973.16               | -15.99           | 255.75               |
| 10       | 2009         | 0.64                                | 79.60                 | 187.22                      | 6336.37         | 35050.59          | 50.99          | 119.92          | 14902.81         | -1.55            | 2.41                 | -0.72            | 0.52                 | -169.95          | 28884.26             |
|          | <b>Total</b> | <b>21.93</b>                        | <b>803.22</b>         | <b>3571.72</b>              | <b>90386.96</b> | <b>1407785.44</b> | <b>2007.06</b> | <b>10120.46</b> | <b>305568.43</b> | <b>0.00</b>      | <b>53.35</b>         | <b>0.00</b>      | <b>25870.74</b>      | <b>0.00</b>      | <b>132068.93</b>     |
| $n = 10$ | <b>Mean</b>  | <b>2.19</b>                         | <b>80.32</b>          | <b>357.17</b>               | $x_1^2$         | $x_2^2$           | $yx_1$         | $yx_2$          | $x_1x_2$         | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $21.93 = 10.00a + 803.22b + 3571.72c$

or  $2.19 = a + 80.32b + 357.17c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

2007.06 = 80.32a + 90386.96b + 305568.43c

24.99 = a + 1125.31b + 3804.29c Eq-2

or 22.80 = 1044.99b + 3447.12c Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

10120.46 = 3571.72a + 305568.43b + 1407785.44c

2.83 = a + 85.55b + 394.15c Eq-4

24.99 = a + 1125.31b + 3804.29c Eq-2

or 22.15 = 1039.76b + 3410.15c Eq-5(Eq-2-Eq-4)

22.27 = 1044.99b + 3427.30c

22.80 = 1044.99b + 3447.12c (Eq-3)

or -0.53 = -19.82c

or **c = 0.0267**

**b = -0.0663**

**a = -2.0222**

$$y = -2.0222 - 0.0663x_1 + 0.0267x_2$$

$$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.2093$$

$$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.8623$$

$$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.3196$$

$$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.8688$$

$$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 2.43$$

$$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 53.61$$

$$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 121.14$$

**Annexure - V**

**SUMMARY OF MONTHLY CORRELATION EQUATIONS (NON- MONSOON)  
AT CHANDIL DAM**

| SI No | Week             | Weekly Correlation Equations |        |   |         |                |   |         | Correlation factor |       |
|-------|------------------|------------------------------|--------|---|---------|----------------|---|---------|--------------------|-------|
| 1     | 1 <sup>st</sup>  | Y=                           | -1.089 | + | -0.0211 | x <sub>1</sub> | + | 0.0133  | x <sub>2</sub>     | 0.868 |
| 2     | 2 <sup>nd</sup>  | Y=                           | -1.269 | + | -0.0326 | x <sub>1</sub> | + | 0.0160  | x <sub>2</sub>     | 0.871 |
| 3     | 3 <sup>rd</sup>  | Y=                           | -0.009 | + | -0.0118 | x <sub>1</sub> | + | 0.0092  | x <sub>2</sub>     | 0.869 |
| 4     | 4 <sup>th</sup>  | Y=                           | 5.637  | + | 0.2765  | x <sub>1</sub> | + | -0.0680 | x <sub>2</sub>     | 0.835 |
| 5     | 5 <sup>th</sup>  | Y=                           | 3.637  | + | 0.0975  | x <sub>1</sub> | + | -0.0214 | x <sub>2</sub>     | 0.857 |
| 6     | 6 <sup>th</sup>  | Y=                           | -1.497 | + | -0.1378 | x <sub>1</sub> | + | 0.0368  | x <sub>2</sub>     | 0.904 |
| 7     | 7 <sup>th</sup>  | Y=                           | -1.062 | + | -0.0173 | x <sub>1</sub> | + | 0.0095  | x <sub>2</sub>     | 0.895 |
| 8     | 8 <sup>th</sup>  | Y=                           | -0.734 | + | -0.0296 | x <sub>1</sub> | + | 0.0085  | x <sub>2</sub>     | 0.913 |
| 9     | 9 <sup>th</sup>  | Y=                           | 6.828  | + | 0.1544  | x <sub>1</sub> | + | -0.0349 | x <sub>2</sub>     | 0.912 |
| 10    | 10 <sup>th</sup> | Y=                           | -1.044 | + | -0.0444 | x <sub>1</sub> | + | 0.0150  | x <sub>2</sub>     | 0.899 |
| 11    | 11 <sup>th</sup> | Y=                           | 6.149  | + | 0.1991  | x <sub>1</sub> | + | -0.0521 | x <sub>2</sub>     | 0.888 |
| 12    | 12 <sup>th</sup> | Y=                           | -0.162 | + | 0.0340  | x <sub>1</sub> | + | -0.0012 | x <sub>2</sub>     | 0.900 |
| 13    | 13 <sup>th</sup> | Y=                           | -0.629 | + | 0.0000  | x <sub>1</sub> | + | 0.0036  | x <sub>2</sub>     | 0.894 |
| 14    | 14 <sup>th</sup> | Y=                           | -0.572 | + | -0.0089 | x <sub>1</sub> | + | 0.0042  | x <sub>2</sub>     | 0.937 |
| 15    | 15 <sup>th</sup> | Y=                           | -0.496 | + | -0.0183 | x <sub>1</sub> | + | 0.0050  | x <sub>2</sub>     | 0.876 |
| 16    | 16 <sup>th</sup> | Y=                           | -0.399 | + | -0.0300 | x <sub>1</sub> | + | 0.0071  | x <sub>2</sub>     | 0.902 |
| 17    | 17 <sup>th</sup> | Y=                           | -0.317 | + | -0.0288 | x <sub>1</sub> | + | 0.0063  | x <sub>2</sub>     | 0.879 |
| 18    | 18 <sup>th</sup> | Y=                           | -0.131 | + | -0.0030 | x <sub>1</sub> | + | 0.0014  | x <sub>2</sub>     | 0.922 |
| 19    | 19 <sup>th</sup> | Y=                           | -0.297 | + | -0.0077 | x <sub>1</sub> | + | 0.0029  | x <sub>2</sub>     | 0.920 |
| 20    | 20 <sup>th</sup> | Y=                           | -0.392 | + | -0.0195 | x <sub>1</sub> | + | 0.0043  | x <sub>2</sub>     | 0.900 |
| 21    | 21 <sup>st</sup> | Y=                           | -0.298 | + | -0.0184 | x <sub>1</sub> | + | 0.0050  | x <sub>2</sub>     | 0.886 |
| 22    | 22 <sup>nd</sup> | Y=                           | -0.686 | + | -0.0774 | x <sub>1</sub> | + | 0.0203  | x <sub>2</sub>     | 0.880 |
| 23    | 44 <sup>th</sup> | Y=                           | -2.500 | + | -0.1032 | x <sub>1</sub> | + | 0.0358  | x <sub>2</sub>     | 0.889 |
| 24    | 45 <sup>th</sup> | Y=                           | -1.457 | + | -0.1622 | x <sub>1</sub> | + | 0.0395  | x <sub>2</sub>     | 0.928 |
| 25    | 46 <sup>th</sup> | Y=                           | -1.448 | + | -0.1346 | x <sub>1</sub> | + | 0.0333  | x <sub>2</sub>     | 0.881 |
| 26    | 47 <sup>th</sup> | Y=                           | -0.173 | + | 0.0044  | x <sub>1</sub> | + | 0.0016  | x <sub>2</sub>     | 0.883 |
| 27    | 48 <sup>th</sup> | Y=                           | -0.134 | + | -0.0001 | x <sub>1</sub> | + | 0.0018  | x <sub>2</sub>     | 0.881 |
| 28    | 49 <sup>th</sup> | Y=                           | -0.267 | + | -0.0071 | x <sub>1</sub> | + | 0.0038  | x <sub>2</sub>     | 0.889 |
| 29    | 50 <sup>th</sup> | Y=                           | -0.308 | + | -0.0093 | x <sub>1</sub> | + | 0.0049  | x <sub>2</sub>     | 0.889 |
| 30    | 51 <sup>st</sup> | Y=                           | -0.388 | + | -0.0172 | x <sub>1</sub> | + | 0.0061  | x <sub>2</sub>     | 0.863 |
| 31    | 52 <sup>nd</sup> | Y=                           | -2.022 | + | -0.0663 | x <sub>1</sub> | + | 0.0267  | x <sub>2</sub>     | 0.869 |

**ANNEXURE -V/23**

**WEEKLY CORRELATION EQUATION FOR 23rd WEEK (04 JUN TO 10 JUN) FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 23 <sup>rd</sup> Week Runoff in MCM | 23 <sup>rd</sup> Week Rainfall in mm | 22 <sup>nd</sup> Week Rainfall in mm | $x_1^2$         | $x_2^2$        | $yx_1$         | $yx_2$        | $x_1x_2$       | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|--------------------------------------|--------------------------------------|-----------------|----------------|----------------|---------------|----------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                                | $x_2$                                |                 |                |                |               |                |                  |                      |                  |                      |                  |                      |
| 1      | 1993         | 0.00                                | 4.78                                 | 9.18                                 | 22.89           | 84.30          | 0.00           | 0.00          | 43.92          | -3.00            | 8.99                 | -25.48           | 649.12               | -3.43            | 11.75                |
| 2      | 1994         | 3.51                                | 12.22                                | 0.00                                 | 149.42          | 0.00           | 42.86          | 0.00          | 0.00           | 0.51             | 0.26                 | -18.04           | 325.37               | -12.61           | 158.98               |
| 3      | 1995         | 0.90                                | 25.12                                | 8.53                                 | 630.87          | 72.69          | 22.49          | 7.63          | 214.14         | -2.10            | 4.42                 | -5.14            | 26.47                | -4.08            | 16.67                |
| 4      | 1996         | 0.55                                | 33.75                                | 11.72                                | 1139.07         | 137.45         | 18.43          | 6.40          | 395.68         | -2.45            | 6.01                 | 3.49             | 12.17                | -0.88            | 0.78                 |
| 5      | 1997         | 0.00                                | 6.82                                 | 68.57                                | 46.52           | 4701.49        | 0.00           | 0.00          | 467.67         | -3.00            | 8.99                 | -23.44           | 549.49               | 55.96            | 3131.39              |
| 6      | 1998         | 0.00                                | 0.00                                 | 0.00                                 | 0.00            | 0.00           | 0.00           | 0.00          | 0.00           | -3.00            | 8.99                 | -30.26           | 915.77               | -12.61           | 158.98               |
| 7      | 1999         | 0.28                                | 0.00                                 | 5.68                                 | 0.00            | 32.31          | 0.00           | 1.56          | 0.00           | -2.72            | 7.42                 | -30.26           | 915.77               | -6.92            | 47.95                |
| 8      | 2000         | 0.86                                | 52.63                                | 4.63                                 | 2769.89         | 21.46          | 45.33          | 3.99          | 243.80         | -2.14            | 4.57                 | 22.37            | 500.33               | -7.98            | 63.62                |
| 9      | 2001         | 0.00                                | 32.11                                | 52.01                                | 1031.29         | 2704.75        | 0.00           | 0.00          | 1670.15        | -3.00            | 8.99                 | 1.85             | 3.43                 | 39.40            | 1552.25              |
| 10     | 2002         | 0.43                                | 39.08                                | 26.08                                | 1526.97         | 679.91         | 16.80          | 11.21         | 1018.92        | -2.57            | 6.60                 | 8.81             | 77.70                | 13.47            | 181.34               |
| 11     | 2003         | 1.60                                | 10.40                                | 0.00                                 | 108.16          | 0.00           | 16.59          | 0.00          | 0.00           | -1.40            | 1.97                 | -19.86           | 394.49               | -12.61           | 158.98               |
| 12     | 2004         | 2.91                                | 9.24                                 | 0.00                                 | 85.31           | 0.00           | 26.83          | 0.00          | 0.00           | -0.09            | 0.01                 | -21.03           | 442.07               | -12.61           | 158.98               |
| 13     | 2005         | 0.00                                | 22.00                                | 0.00                                 | 484.00          | 0.00           | 0.00           | 0.00          | 0.00           | -3.00            | 8.99                 | -8.26            | 68.26                | -12.61           | 158.98               |
| 14     | 2006         | 34.17                               | 184.50                               | 0.00                                 | 34040.25        | 0.00           | 6304.85        | 0.00          | 0.00           | 31.17            | 971.85               | 154.24           | 23789.43             | -12.61           | 158.98               |
| 15     | 2007         | 0.00                                | 17.80                                | 1.80                                 | 316.84          | 3.24           | 0.00           | 0.00          | 32.04          | -3.00            | 8.99                 | -12.46           | 155.30               | -10.81           | 116.83               |
| 16     | 2008         | 4.84                                | 64.00                                | 22.88                                | 4095.78         | 523.58         | 310.01         | 110.84        | 1464.40        | 1.85             | 3.41                 | 33.74            | 1138.15              | 10.27            | 105.54               |
| 17     | 2009         | 0.94                                | 0.00                                 | 3.27                                 | 0.00            | 10.68          | 0.00           | 3.07          | 0.00           | -2.06            | 4.24                 | -30.26           | 915.77               | -9.34            | 87.24                |
|        | <b>Total</b> | <b>50.97</b>                        | <b>514.45</b>                        | <b>214.35</b>                        | <b>46447.26</b> | <b>8971.85</b> | <b>6804.19</b> | <b>144.71</b> | <b>5550.72</b> | <b>0.00</b>      | <b>1064.68</b>       | <b>0.00</b>      | <b>30879.09</b>      | <b>0.00</b>      | <b>6269.23</b>       |
| n = 17 | <b>Mean</b>  | <b>3.00</b>                         | <b>30.26</b>                         | <b>12.61</b>                         | $x_1^2$         | $x_2^2$        | $yx_1$         | $yx_2$        | $x_1x_2$       | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

$$\text{or } 50.97 = 17.00 a + 514.45 b + 214.35 c$$

$$\text{or } 3.00 = a + 30.26 b + 12.61 c \quad \text{Eq-1}$$

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$$6804.19 = 30.26 a + 46447.26 b + 5550.72 c$$

$$224.84 = a + 1534.85 b + 183.42 c \quad \text{Eq-2}$$

$$\text{or } 221.85 = 1504.59 b + 170.81 c \quad \text{Eq-3(Eq2-Eq1)}$$

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$$144.71 = 214.35 a + 5550.72 b + 8971.85 c$$

$$0.68 = a + 25.90 b + 41.86 c \quad \text{Eq-4}$$

$$224.84 = a + 1534.85 b + 183.42 c \quad \text{Eq-2}$$

$$\text{or } 224.17 = 1508.95 b + 141.57 c \quad \text{Eq-5(Eq-2-Eq-4)}$$

$$223.52 = 1504.59 b + 141.16 c$$

$$221.85 = 1504.59 b + 170.81 c \quad \text{(Eq-3)}$$

$$\text{or } 1.67 = -29.66 c$$

$$\text{or } c = -0.0565$$

$$b = 0.1539$$

$$a = -0.9459$$

$$y = -0.9459 + 0.1539 x_1 - 0.0565 x_2$$

$$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.9177$$

$$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = -0.1927$$

$$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = -0.0673$$

$$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.9209$$

$$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 8.16$$

$$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 43.93$$

$$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 19.79$$



**ANNEXURE -V/24**

**WEEKLY CORRELATION EQUATION FOR 24<sup>th</sup> WEEK (11 JUN TO 17 JUN) FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 24 <sup>th</sup> Week Runoff in MCM | 24 <sup>th</sup> Week Rainfall in mm | 23 <sup>rd</sup> Week Rainfall in mm | $x_1^2$         | $x_2^2$         | $yx_1$         | $yx_2$        | $x_1x_2$        | $y-y_{\bar{y}}$     | $(y-y_{\bar{y}})^2$     | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |
|--------|--------------|-------------------------------------|--------------------------------------|--------------------------------------|-----------------|-----------------|----------------|---------------|-----------------|---------------------|-------------------------|---------------------|-------------------------|---------------------|-------------------------|
|        |              | y                                   | $x_1$                                | $x_2$                                |                 |                 |                |               |                 |                     |                         |                     |                         |                     |                         |
| 1      | 1994         | 3.82                                | 48.24                                | 12.22                                | 2327.13         | 149.42          | 184.47         | 46.74         | 589.68          | 1.07                | 1.15                    | 17.81               | 317.36                  | -10.71              | 114.79                  |
| 2      | 1995         | 6.69                                | 33.58                                | 25.12                                | 1127.44         | 630.87          | 224.64         | 168.04        | 843.37          | 3.94                | 15.50                   | 3.15                | 9.93                    | 2.18                | 4.75                    |
| 3      | 1996         | 0.27                                | 0.00                                 | 33.75                                | 0.00            | 1139.07         | 0.00           | 9.21          | 0.00            | -2.48               | 6.15                    | -30.43              | 925.72                  | 10.81               | 116.91                  |
| 4      | 1997         | 0.67                                | 3.30                                 | 6.82                                 | 10.89           | 46.52           | 2.22           | 4.58          | 22.51           | -2.08               | 4.33                    | -27.13              | 735.77                  | -16.12              | 259.76                  |
| 5      | 1999         | 8.47                                | 84.14                                | 0.00                                 | 7080.27         | 0.00            | 712.36         | 0.00          | 0.00            | 5.71                | 32.63                   | 53.72               | 2885.70                 | -22.94              | 526.14                  |
| 6      | 2000         | 0.23                                | 31.75                                | 52.63                                | 1008.04         | 2769.89         | 7.29           | 12.09         | 1670.97         | -2.52               | 6.37                    | 1.32                | 1.75                    | 29.69               | 881.62                  |
| 7      | 2002         | 0.72                                | 24.87                                | 39.08                                | 618.36          | 1526.97         | 17.80          | 27.97         | 971.71          | -2.04               | 4.15                    | -5.56               | 30.90                   | 16.14               | 260.46                  |
| 8      | 2003         | 1.87                                | 17.20                                | 10.40                                | 295.84          | 108.16          | 32.13          | 19.43         | 178.88          | -0.89               | 0.78                    | -13.23              | 174.92                  | -12.54              | 157.19                  |
| 9      | 2004         | 2.46                                | 23.35                                | 9.24                                 | 545.32          | 85.31           | 57.39          | 22.70         | 215.69          | -0.30               | 0.09                    | -7.07               | 50.03                   | -13.70              | 187.73                  |
| 10     | 2005         | 0.00                                | 0.00                                 | 22.00                                | 0.00            | 484.00          | 0.00           | 0.00          | 0.00            | -2.75               | 7.58                    | -30.43              | 925.72                  | -0.94               | 0.88                    |
| 11     | 2008         | 7.84                                | 92.99                                | 64.00                                | 8647.51         | 4095.78         | 729.47         | 502.03        | 5951.33         | 5.09                | 25.92                   | 62.57               | 3914.56                 | 41.06               | 1685.97                 |
| 12     | 2009         | 0.00                                | 5.68                                 | 0.00                                 | 32.31           | 0.00            | 0.00           | 0.00          | 0.00            | -2.75               | 7.58                    | -24.74              | 612.15                  | -22.94              | 526.14                  |
|        | <b>Total</b> | <b>33.04</b>                        | <b>365.11</b>                        | <b>275.25</b>                        | <b>21693.10</b> | <b>11035.99</b> | <b>1967.77</b> | <b>812.80</b> | <b>10444.13</b> | <b>0.00</b>         | <b>112.24</b>           | <b>0.00</b>         | <b>10584.52</b>         | <b>0.00</b>         | <b>4722.33</b>          |
| n = 12 | <b>Mean</b>  | <b>2.75</b>                         | <b>30.43</b>                         | <b>22.94</b>                         | $x_1^2$         | $x_2^2$         | $yx_1$         | $yx_2$        | $x_1x_2$        | $y_1-y_{\bar{y}_1}$ | $(y_1-y_{\bar{y}_1})^2$ | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $33.04 = 12.00 a + 365.11 b + 275.25 c$

or  $2.75 = a + 30.43 b + 22.94 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

1967.77 = 30.43 a + 21693.10 b + 10444.13 c

64.67 = a + 712.99 b + 343.27 c Eq-2

or 61.92 = 682.56 b + 320.33 c Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

812.80 = 275.25 a + 10444.13 b + 11035.99 c

2.95 = a + 37.94 b + 40.09 c Eq-4

64.67 = a + 712.99 b + 343.27 c Eq-2

or 61.72 = 675.05 b + 303.17 c Eq-5(Eq2-Eq4)

62.41 = 682.56 b + 306.55 c

61.92 = 682.56 b + 320.33 c (Eq-3)

or 0.49 = -13.78 c

or **c = -0.0354**

**b = 0.1073**

**a = 0.2997**

**y = 0.2997 + 0.1073 x<sub>1</sub> - 0.0354 x<sub>2</sub>**

**R<sub>yx<sub>1</sub></sub> =  $\frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.8831$**

**R<sub>yx<sub>2</sub></sub> =  $\frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.0754$**

**R<sub>x<sub>1</sub>x<sub>2</sub></sub> =  $\frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.2927$**

**R<sub>yx<sub>1</sub>x<sub>2</sub></sub> =  $\sqrt{(1-(R_{yx_1})^2) * (1-(R_{yx_2})^2))} = 0.8838$**

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 3.19$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 31.02$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 20.72$

**ANNEXURE -V/25**

**WEEKLY CORRELATION EQUATION FOR 25<sup>th</sup> WEEK (18 JUN TO 24 JUN) FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE -II**

| SL No. | Year         | 25 <sup>th</sup> Week Runoff in MCM | 25 <sup>th</sup> Week Rainfall in mm | 24 <sup>th</sup> Week Rainfall in mm | $x_1^2$          | $x_2^2$         | $yx_1$          | $yx_2$         | $x_1x_2$        | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|--------------------------------------|--------------------------------------|------------------|-----------------|-----------------|----------------|-----------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                                | $x_2$                                |                  |                 |                 |                |                 |                  |                      |                  |                      |                  |                      |
| 1      | 1993         | 3.70                                | 43.76                                | 13.08                                | 1914.66          | 171.08          | 162.04          | 48.44          | 572.33          | -8.01            | 64.19                | -26.01           | 676.66               | -17.04           | 290.29               |
| 2      | 1994         | 4.39                                | 47.57                                | 48.24                                | 2262.95          | 2327.13         | 208.68          | 211.62         | 2294.81         | -7.33            | 53.70                | -22.20           | 492.80               | 18.12            | 328.42               |
| 3      | 1995         | 1.86                                | 80.27                                | 33.58                                | 6443.21          | 1127.44         | 149.57          | 62.56          | 2695.24         | -9.85            | 97.05                | 10.50            | 110.25               | 3.46             | 11.97                |
| 4      | 1996         | 2.05                                | 120.16                               | 0.00                                 | 14439.37         | 0.00            | 246.05          | 0.00           | 0.00            | -9.67            | 93.46                | 50.39            | 2539.59              | -30.12           | 907.09               |
| 5      | 1997         | 2.18                                | 6.25                                 | 3.30                                 | 39.11            | 10.89           | 13.63           | 7.19           | 20.64           | -9.54            | 90.93                | -63.52           | 4034.28              | -26.82           | 719.17               |
| 6      | 1998         | 1.90                                | 82.60                                | 63.70                                | 6822.76          | 4057.69         | 156.98          | 121.06         | 5261.62         | -9.81            | 96.32                | 12.83            | 164.62               | 33.58            | 1127.76              |
| 7      | 1999         | 2.10                                | 55.22                                | 84.14                                | 3049.67          | 7080.27         | 116.23          | 177.10         | 4646.77         | -9.61            | 92.35                | -14.55           | 211.58               | 54.03            | 2918.85              |
| 8      | 2000         | 1.74                                | 85.37                                | 31.75                                | 7287.66          | 1008.04         | 148.23          | 55.13          | 2710.39         | -9.98            | 99.57                | 15.60            | 243.30               | 1.63             | 2.66                 |
| 9      | 2002         | 2.01                                | 87.72                                | 24.87                                | 7694.64          | 618.36          | 176.44          | 50.02          | 2181.30         | -9.70            | 94.16                | 17.95            | 322.19               | -5.25            | 27.57                |
| 10     | 2003         | 2.79                                | 61.20                                | 17.20                                | 3745.44          | 295.84          | 170.46          | 47.91          | 1052.64         | -8.93            | 79.74                | -8.57            | 73.44                | -12.92           | 166.87               |
| 11     | 2004         | 141.80                              | 326.01                               | 23.35                                | 106284.15        | 545.32          | 46229.03        | 3311.36        | 7613.07         | 130.09           | 16922.52             | 256.24           | 65660.44             | -6.77            | 45.78                |
| 12     | 2005         | 1.45                                | 32.60                                | 0.00                                 | 1062.76          | 0.00            | 47.21           | 0.00           | 0.00            | -10.27           | 105.41               | -37.17           | 1381.58              | -30.12           | 907.09               |
| 13     | 2006         | 0.64                                | 38.20                                | 0.00                                 | 1459.24          | 0.00            | 24.30           | 0.00           | 0.00            | -11.08           | 122.74               | -31.57           | 996.64               | -30.12           | 907.09               |
| 14     | 2007         | 0.00                                | 8.80                                 | 40.00                                | 77.44            | 1600.00         | 0.00            | 0.00           | 352.00          | -11.71           | 137.24               | -60.97           | 3717.29              | 9.88             | 97.66                |
| 15     | 2008         | 18.21                               | 40.58                                | 92.99                                | 1646.36          | 8647.51         | 738.77          | 1693.13        | 3773.19         | 6.49             | 42.15                | -29.19           | 852.30               | 62.87            | 3953.15              |
| 16     | 2009         | 0.63                                | 0.00                                 | 5.68                                 | 0.00             | 32.31           | 0.00            | 3.56           | 0.00            | -11.09           | 122.95               | -69.77           | 4867.79              | -24.43           | 597.02               |
|        | <b>Total</b> | <b>187.44</b>                       | <b>1116.31</b>                       | <b>481.89</b>                        | <b>164229.40</b> | <b>27521.87</b> | <b>48587.59</b> | <b>5789.07</b> | <b>33174.00</b> | <b>0.00</b>      | <b>18314.47</b>      | <b>0.00</b>      | <b>86344.74</b>      | <b>0.00</b>      | <b>13008.45</b>      |
| n = 16 | <b>Mean</b>  | <b>11.71</b>                        | <b>69.77</b>                         | <b>30.12</b>                         | $x_1^2$          | $x_2^2$         | $yx_1$          | $yx_2$         | $x_1x_2$        | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $187.44 = 16.00 a + 1116.31 b + 481.89 c$

or  $11.71 = a + 69.77 b + 30.12 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$48587.59 = 69.77 a + 164229.40 b + 33174.00 c$

$696.40 = a + 2353.88 b + 475.48 c$  Eq-2

or  $684.69 = 2284.11 b + 445.36 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$5789.07 = 481.89 a + 33174.00 b + 27521.87 c$

$12.01 = a + 68.84 b + 57.11 c$  Eq-4

$696.40 = a + 2353.88 b + 475.48 c$  Eq-2

or  $684.39 = 2285.04 b + 418.37 c$  Eq-5(Eq-2-Eq-4)

$684.11 = 2284.11 b + 418.20 c$

$684.69 = 2284.11 b + 445.36 c$  (Eq-3)

or  $-0.58 = -27.16 c$

or  $c = 0.0212$

$b = 0.2956$

$a = -9.5497$

$y = -9.5497 + 0.2956 x_1 + 0.0212 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.8930$

$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.0093$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = -0.0133$

$R_{yx_1x_2} = \sqrt{(1-(R_{yx_1}^2)) * (1-(R_{yx_2}^2))} = 0.8930$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 34.94$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 75.87$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 29.45$

**ANNEXURE -V/26**

**WEEKLY CORRELATION EQUATION FOR 26<sup>th</sup> WEEK (25 JUN TO 01 JUL) FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE -II**

| SL No. | Year         | 26 <sup>th</sup> Week Runoff in MCM | 26 <sup>th</sup> Week Rainfall in mm | 25 <sup>th</sup> Week Rainfall in mm | $x_1^2$         | $x_2^2$         | $yx_1$         | $yx_2$          | $x_1x_2$        | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|--------------------------------------|--------------------------------------|-----------------|-----------------|----------------|-----------------|-----------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                                | $x_2$                                |                 |                 |                |                 |                 |                  |                      |                  |                      |                  |                      |
| 1      | 1993         | 13.41                               | 75.15                                | 43.76                                | 5647.71         | 1914.66         | 1007.76        | 586.77          | 3288.38         | 3.00             | 8.99                 | 8.98             | 80.60                | -10.50           | 110.26               |
| 2      | 1994         | 3.71                                | 17.10                                | 47.57                                | 292.32          | 2262.95         | 63.35          | 176.25          | 813.33          | -6.71            | 44.97                | -49.08           | 2408.49              | -6.69            | 44.71                |
| 3      | 1995         | 3.56                                | 51.84                                | 80.27                                | 2687.38         | 6443.21         | 184.32         | 285.40          | 4161.17         | -6.86            | 47.00                | -14.33           | 205.46               | 26.01            | 676.65               |
| 4      | 1997         | 1.82                                | 140.43                               | 6.25                                 | 19720.41        | 39.11           | 255.65         | 11.38           | 878.19          | -8.59            | 73.80                | 74.26            | 5513.90              | -48.00           | 2304.34              |
| 5      | 1999         | 12.16                               | 97.33                                | 55.22                                | 9473.20         | 3049.67         | 1183.47        | 671.48          | 5374.95         | 1.75             | 3.06                 | 31.16            | 970.74               | 0.97             | 0.93                 |
| 6      | 2001         | 51.42                               | 45.91                                | 191.18                               | 2107.58         | 36549.37        | 2360.42        | 9829.60         | 8776.72         | 41.00            | 1681.39              | -20.27           | 410.68               | 136.92           | 18747.57             |
| 7      | 2003         | 12.42                               | 51.30                                | 61.20                                | 2631.69         | 3745.44         | 637.26         | 760.24          | 3139.56         | 2.01             | 4.05                 | -14.87           | 221.23               | 6.94             | 48.20                |
| 8      | 2005         | 3.24                                | 158.60                               | 32.60                                | 25153.96        | 1062.76         | 513.72         | 105.59          | 5170.36         | -7.17            | 51.44                | 92.43            | 8542.61              | -21.66           | 469.03               |
| 9      | 2006         | 8.16                                | 38.50                                | 38.20                                | 1482.25         | 1459.24         | 313.99         | 311.54          | 1470.70         | -2.26            | 5.09                 | -27.67           | 765.84               | -16.06           | 257.83               |
| 10     | 2008         | 4.61                                | 37.28                                | 40.58                                | 1389.69         | 1646.36         | 171.79         | 186.99          | 1512.59         | -5.80            | 33.67                | -28.90           | 834.93               | -13.68           | 187.19               |
| 11     | 2009         | 0.03                                | 14.48                                | 0.00                                 | 209.55          | 0.00            | 0.43           | 0.00            | 0.00            | -10.38           | 107.77               | -51.70           | 2672.66              | -54.26           | 2943.84              |
|        | <b>Total</b> | <b>114.52</b>                       | <b>727.91</b>                        | <b>596.83</b>                        | <b>70795.75</b> | <b>58172.77</b> | <b>6692.16</b> | <b>12925.26</b> | <b>34585.96</b> | <b>0.00</b>      | <b>2061.21</b>       | <b>0.00</b>      | <b>22627.14</b>      | <b>0.00</b>      | <b>25790.55</b>      |
| n = 11 | <b>Mean</b>  | <b>10.41</b>                        | <b>66.17</b>                         | <b>54.26</b>                         | $x_1^2$         | $x_2^2$         | $yx_1$         | $yx_2$          | $x_1x_2$        | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $114.52 = 11.00 a + 727.91 b + 596.83 c$

or  $10.41 = a + 66.17 b + 54.26 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$6692.16 = 66.17 a + 70795.75 b + 34585.96 c$

$101.13 = a + 1069.85 b + 522.65 c$  Eq-2

or  $90.72 = 1003.67 b + 468.40 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$12925.26 = 596.83 a + 34585.96 b + 58172.77 c$

$21.66 = a + 57.95 b + 97.47 c$  Eq-4

$101.13 = a + 1069.85 b + 522.65 c$  Eq-2

or  $79.47 = 1011.90 b + 425.18 c$  Eq-5(Eq-2-Eq-4)

$78.83 = 1003.67 b + 421.73 c$

$90.72 = 1003.67 b + 468.40 c$  (Eq-3)

or  $-11.89 = -46.67 c$

or  $c = 0.2548$

$b = -0.0285$

$a = -1.5264$

$y = -1.5264 - 0.0285 x_1 + 0.2548 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = -0.1298$

$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.9205$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = -0.2032$

$R_{yx_1x_2} = \sqrt{(1 - (R_{yx_1})^2) * (1 - (R_{yx_2})^2)}$  0.9219

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 14.36$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 47.57$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 50.78$

**ANNEXURE -V/27**

**WEEKLY CORRELATION EQUATION FOR 27<sup>th</sup> WEEK (02 JUL TO 08 JUL) FOR CHANDANDAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year | 27 <sup>th</sup> Week Runoff in MCM | 27 <sup>th</sup> Week Rainfall in mm | 26 <sup>th</sup> Week Rainfall in mm | $x_1^2$  | $x_2^2$  | $yx_1$  | $yx_2$  | $x_1x_2$ | $y-y\bar{y}$ | $(y-y\bar{y})^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|------|-------------------------------------|--------------------------------------|--------------------------------------|----------|----------|---------|---------|----------|--------------|------------------|------------------|----------------------|------------------|----------------------|
|        |      | y                                   | $x_1$                                | $x_2$                                |          |          |         |         |          |              |                  |                  |                      |                  |                      |
| 1      | 1993 | 1.16                                | 27.18                                | 75.15                                | 738.63   | 5647.71  | 31.57   | 87.29   | 2042.44  | -6.44        | 41.48            | -26.80           | 718.48               | 18.28            | 334.19               |
| 2      | 1994 | 4.41                                | 48.93                                | 17.10                                | 2393.86  | 292.32   | 215.65  | 75.36   | 836.52   | -3.19        | 10.20            | -5.05            | 25.55                | -39.77           | 1581.90              |
| 3      | 1995 | 18.76                               | 133.72                               | 51.84                                | 17881.76 | 2687.38  | 2508.21 | 972.35  | 6932.18  | 11.15        | 124.43           | 79.74            | 6358.57              | -5.03            | 25.31                |
| 4      | 1996 | 2.83                                | 4.34                                 | 88.57                                | 18.86    | 7844.30  | 12.31   | 251.00  | 384.63   | -4.77        | 22.73            | -49.64           | 2464.06              | 31.70            | 1004.74              |
| 5      | 1997 | 18.24                               | 62.95                                | 140.43                               | 3962.67  | 19720.41 | 1147.98 | 2560.93 | 8839.99  | 10.63        | 113.09           | 8.97             | 80.42                | 83.56            | 6982.09              |
| 6      | 2000 | 4.55                                | 6.14                                 | 16.72                                | 37.67    | 279.69   | 27.93   | 76.10   | 102.65   | -3.05        | 9.31             | -47.84           | 2289.07              | -40.15           | 1611.76              |
| 7      | 2002 | 21.15                               | 176.13                               | 50.50                                | 31022.12 | 2550.04  | 3725.75 | 1068.20 | 8894.25  | 13.55        | 183.64           | 122.15           | 14920.36             | -6.37            | 40.61                |
| 8      | 2003 | 2.09                                | 3.20                                 | 51.30                                | 10.24    | 2631.69  | 6.68    | 107.05  | 164.16   | -5.52        | 30.42            | -50.78           | 2578.82              | -5.57            | 31.03                |
| 9      | 2004 | 1.92                                | 48.87                                | 5.73                                 | 2388.69  | 32.86    | 93.62   | 10.98   | 280.17   | -5.69        | 32.33            | -5.11            | 26.09                | -51.14           | 2615.09              |
| 10     | 2005 | 15.52                               | 85.41                                | 158.60                               | 7295.04  | 25153.96 | 1325.28 | 2460.91 | 13546.18 | 7.91         | 62.64            | 31.43            | 987.78               | 101.73           | 10348.90             |
| 11     | 2006 | 1.15                                | 22.20                                | 38.50                                | 492.84   | 1482.25  | 25.59   | 44.38   | 854.70   | -6.45        | 41.59            | -31.78           | 1010.10              | -18.37           | 337.47               |

|        |              |              |               |               |                 |                 |                |                |                 |                       |                           |                       |                           |                       |                           |
|--------|--------------|--------------|---------------|---------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------------|---------------------------|-----------------------|---------------------------|-----------------------|---------------------------|
| 12     | 2007         | 5.49         | 70.95         | 30.40         | 5033.20         | 924.16          | 389.19         | 166.77         | 2156.73         | -2.12                 | 4.48                      | 16.96                 | 287.74                    | -26.47                | 700.69                    |
| 13     | 2009         | 1.57         | 11.75         | 14.48         | 138.01          | 209.55          | 18.42          | 22.70          | 170.06          | -6.03                 | 36.41                     | -42.23                | 1783.74                   | -42.39                | 1797.30                   |
|        | <b>Total</b> | <b>98.83</b> | <b>701.77</b> | <b>739.32</b> | <b>71413.58</b> | <b>69456.32</b> | <b>9528.17</b> | <b>7904.01</b> | <b>45204.66</b> | <b>0.00</b>           | <b>712.76</b>             | <b>0.00</b>           | <b>33530.77</b>           | <b>0.00</b>           | <b>27411.07</b>           |
| n = 13 | <b>Mean</b>  | <b>7.60</b>  | <b>53.98</b>  | <b>56.87</b>  | $x_1^2$         | $x_2^2$         | $yx_1$         | $yx_2$         | $x_1x_2$        | $y_1 - y_{\square_1}$ | $(y_1 - y_{\square_1})^2$ | $x_1 - x_{\square_1}$ | $(x_1 - x_{\square_1})^2$ | $x_2 - x_{\square_2}$ | $(x_2 - x_{\square_2})^2$ |



Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

$$\text{or } 98.83 = 13.00 a + 701.77 b + 739.32 c$$

$$\text{or } 7.60 = a + 53.98 b + 56.87 c \quad \text{Eq-1}$$

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$$9528.17 = 53.98 a + 71413.58 b + 45204.66 c$$

$$176.51 = a + 1322.91 b + 837.40 c \quad \text{Eq-2}$$

$$\text{or } 168.90 = 1268.93 b + 780.53 c \quad \text{Eq-3(Eq2-Eq1)}$$

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$$7904.01 = 739.32 a + 45204.66 b + 69456.32 c$$

$$10.69 = a + 61.14 b + 93.95 c \quad \text{Eq-4}$$

$$176.51 = a + 1322.91 b + 837.40 c \quad \text{Eq-2}$$

$$\text{or } 165.82 = 1261.77 b + 743.45 c \quad \text{Eq-5(Eq-2-Eq-4)}$$

$$166.76 = 1268.93 b + 747.67 c$$

$$168.90 = 1268.93 b + 780.53 c \quad \text{(Eq-3)}$$

$$\text{or } -2.15 = -32.86 c$$

$$\text{or } c = 0.0654$$

$$b = 0.0929$$

$$a = -1.1306$$

$$y = -1.1306 + 0.0929 x_1 + 0.0654 x_2$$

$$\sigma_y = \sqrt{\sum (y - \bar{y})^2 / (n-1)} = 7.71$$

$$\sigma_{x_1} = \sqrt{\sum (x_1 - \bar{x}_1)^2 / (n-1)} = 52.86$$

$$\sigma_{x_2} = \sqrt{\sum (x_2 - \bar{x}_2)^2 / (n-1)} = 47.79$$

$$R_{yx_1} = \frac{\sum (yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.8578$$

$$R_{yx_2} = \frac{\sum (yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.5167$$

$$R_{x_1x_2} = \frac{\sum (x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.1747$$

$$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.8979$$

**ANNEXURE -V/28**

**WEEKLY CORRELATION EQUATION FOR 28<sup>th</sup> WEEK (09 JUL TO 15 JUL) FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 28 <sup>th</sup> Week Runoff in MCM | 28 <sup>th</sup> Week Rainfall in mm | 27 <sup>th</sup> Week Rainfall in mm | $x_1^2$          | $x_2^2$         | $yx_1$          | $yx_2$          | $x_1x_2$        | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|--------------------------------------|--------------------------------------|------------------|-----------------|-----------------|-----------------|-----------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                                | $x_2$                                |                  |                 |                 |                 |                 |                  |                      |                  |                      |                  |                      |
| 1      | 1993         | 4.54                                | 33.11                                | 27.18                                | 1096.02          | 738.63          | 150.18          | 123.28          | 899.75          | -15.32           | 234.79               | -54.19           | 2936.30              | -23.47           | 550.87               |
| 2      | 1994         | 0.88                                | 9.46                                 | 48.93                                | 89.50            | 2393.86         | 8.33            | 43.09           | 462.86          | -18.98           | 360.17               | -77.83           | 6058.07              | -1.72            | 2.96                 |
| 3      | 1995         | 19.87                               | 118.16                               | 133.72                               | 13962.67         | 17881.76        | 2347.49         | 2656.59         | 15801.18        | 0.01             | 0.00                 | 30.87            | 952.95               | 83.07            | 6901.37              |
| 4      | 1996         | 20.70                               | 155.84                               | 4.34                                 | 24285.86         | 18.86           | 3226.47         | 89.91           | 676.78          | 0.84             | 0.71                 | 68.55            | 4698.47              | -46.31           | 2144.19              |
| 5      | 1997         | 50.98                               | 120.05                               | 62.95                                | 14413.20         | 3962.67         | 6120.79         | 3209.38         | 7557.43         | 31.12            | 968.72               | 32.76            | 1073.29              | 12.30            | 151.33               |
| 6      | 1999         | 43.41                               | 107.93                               | 19.21                                | 11649.12         | 369.14          | 4685.37         | 834.05          | 2073.68         | 23.55            | 554.69               | 20.64            | 425.90               | -31.44           | 988.17               |
| 7      | 2000         | 11.27                               | 85.13                                | 6.14                                 | 7247.55          | 37.67           | 959.80          | 69.20           | 522.53          | -8.58            | 73.70                | -2.16            | 4.67                 | -44.51           | 1981.18              |
| 8      | 2001         | 4.17                                | 12.73                                | 12.50                                | 162.17           | 156.36          | 53.09           | 52.13           | 159.24          | -15.69           | 246.17               | -74.56           | 5559.10              | -38.14           | 1454.95              |
| 9      | 2002         | 0.00                                | 3.27                                 | 176.13                               | 10.68            | 31022.12        | 0.00            | 0.00            | 575.63          | -19.86           | 394.38               | -84.03           | 7060.31              | 125.48           | 15745.92             |
| 10     | 2003         | 22.55                               | 96.80                                | 3.20                                 | 9370.24          | 10.24           | 2182.92         | 72.16           | 309.76          | 2.69             | 7.25                 | 9.51             | 90.37                | -47.45           | 2251.33              |
| 11     | 2004         | 8.11                                | 51.52                                | 48.87                                | 2654.78          | 2388.69         | 417.84          | 396.35          | 2518.22         | -11.75           | 138.05               | -35.77           | 1279.44              | -1.77            | 3.15                 |
| 12     | 2005         | 12.66                               | 100.42                               | 85.41                                | 10083.92         | 7295.04         | 1270.99         | 1081.04         | 8576.86         | -7.20            | 51.87                | 13.12            | 172.26               | 34.76            | 1208.45              |
| 13     | 2006         | 95.16                               | 338.00                               | 22.20                                | 114244.00        | 492.84          | 32164.06        | 2112.55         | 7503.60         | 75.30            | 5670.24              | 250.71           | 62853.58             | -28.45           | 809.30               |
| 14     | 2007         | 10.22                               | 60.44                                | 70.95                                | 3653.31          | 5033.20         | 617.60          | 724.91          | 4288.10         | -9.64            | 92.95                | -26.85           | 720.99               | 20.30            | 411.96               |
| 15     | 2008         | 12.01                               | 81.84                                | 76.89                                | 6698.10          | 5911.64         | 983.07          | 923.56          | 6292.60         | -7.85            | 61.58                | -5.45            | 29.72                | 26.24            | 688.48               |
| 16     | 2009         | 1.21                                | 21.98                                | 11.75                                | 483.26           | 138.01          | 26.64           | 14.23           | 258.25          | -18.65           | 347.72               | -65.31           | 4265.50              | -38.90           | 1513.25              |
|        | <b>Total</b> | <b>317.74</b>                       | <b>1396.70</b>                       | <b>810.37</b>                        | <b>220104.37</b> | <b>77850.72</b> | <b>55214.63</b> | <b>12402.44</b> | <b>58476.47</b> | <b>0.00</b>      | <b>9202.98</b>       | <b>0.00</b>      | <b>98180.92</b>      | <b>0.00</b>      | <b>36806.86</b>      |
| n = 16 | <b>Mean</b>  | <b>19.86</b>                        | <b>87.29</b>                         | <b>50.65</b>                         | $x_1^2$          | $x_2^2$         | $yx_1$          | $yx_2$          | $x_1x_2$        | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $317.74 = 16.00 a + 1396.70 b + 810.37 c$

or  $19.86 = a + 87.29 b + 50.65 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

55214.63 = 87.29 a + 220104.37 b + 58476.47 c

632.51 = a + 2521.42 b + 669.88 c Eq-2

or  $612.66 = 2434.13 b + 619.23 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

12402.44 = 810.37 a + 58476.47 b + 77850.72 c

15.30 = a + 72.16 b + 96.07 c Eq-4

632.51 = a + 2521.42 b + 669.88 c Eq-2

or  $617.21 = 2449.26 b + 573.81 c$  Eq-5(Eq-2-Eq-4)

613.40 = 2434.13 b + 570.27 c

612.66 = 2434.13 b + 619.23 c (Eq-3)

or  $0.74 = -48.97 c$

or  $c = -0.0151$

$b = 0.2555$

$a = -1.6823$

$y = -1.6823 + 0.2555 x_1 - 0.0151 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(y \bar{x}_1)}{(n-1) \sigma_y \sigma_{x_1}} = 0.9141$

$R_{yx_2} = \frac{\sum(yx_2) - n(y \bar{x}_2)}{(n-1) \sigma_y \sigma_{x_2}} = -0.2005$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1 \bar{x}_2)}{(n-1) \sigma_{x_1} \sigma_{x_2}} = -0.2040$

$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.9177$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 24.77$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 80.90$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 49.54$

**ANNEXURE -V/29**

**WEEKLY CORRELATION EQUATION FOR 29<sup>th</sup> WEEK (16 JUL TO 22 JUL) FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE -II**

| SL No. | Year         | 29 <sup>th</sup> Week Runoff in MCM | 29 <sup>th</sup> Week Rainfall in mm | 28 <sup>th</sup> Week Rainfall in mm | $x_1^2$          | $x_2^2$          | $yx_1$          | $yx_2$          | $x_1x_2$        | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|--------------------------------------|--------------------------------------|------------------|------------------|-----------------|-----------------|-----------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                                | $x_2$                                |                  |                  |                 |                 |                 |                  |                      |                  |                      |                  |                      |
| 1      | 1993         | 5.40                                | 58.14                                | 33.11                                | 3380.06          | 1096.02          | 314.20          | 178.92          | 1924.74         | -11.63           | 135.17               | -20.85           | 434.54               | -57.12           | 3262.86              |
| 2      | 1994         | 3.20                                | 32.20                                | 9.46                                 | 1037.16          | 89.50            | 102.90          | 30.23           | 304.67          | -13.84           | 191.42               | -46.78           | 2188.27              | -80.77           | 6523.38              |
| 3      | 1995         | 4.58                                | 51.99                                | 118.16                               | 2703.35          | 13962.67         | 237.91          | 540.68          | 6143.77         | -12.45           | 155.13               | -26.99           | 728.47               | 27.94            | 780.42               |
| 4      | 1996         | 10.86                               | 27.68                                | 155.84                               | 766.14           | 24285.86         | 300.70          | 1692.99         | 4313.51         | -6.17            | 38.03                | -51.30           | 2632.18              | 65.61            | 4304.88              |
| 5      | 1999         | 36.58                               | 132.53                               | 107.93                               | 17565.48         | 11649.12         | 4848.34         | 3948.29         | 14304.63        | 19.55            | 382.24               | 53.55            | 2867.70              | 17.70            | 313.41               |
| 6      | 2000         | 25.68                               | 133.57                               | 85.13                                | 17841.08         | 7247.55          | 3430.44         | 2186.43         | 11371.20        | 8.65             | 74.86                | 54.59            | 2979.69              | -5.10            | 25.96                |
| 7      | 2001         | 6.28                                | 44.33                                | 12.73                                | 1965.34          | 162.17           | 278.29          | 79.94           | 564.55          | -10.75           | 115.63               | -34.65           | 1200.75              | -77.49           | 6005.20              |
| 8      | 2003         | 8.00                                | 0.00                                 | 96.80                                | 0.00             | 9370.24          | 0.00            | 773.98          | 0.00            | -9.03            | 81.63                | -78.98           | 6238.46              | 6.57             | 43.20                |
| 9      | 2004         | 12.37                               | 36.37                                | 51.52                                | 1323.12          | 2654.78          | 450.04          | 637.48          | 1874.19         | -4.66            | 21.70                | -42.61           | 1815.54              | -38.70           | 1497.93              |
| 10     | 2006         | 6.75                                | 29.00                                | 338.00                               | 841.00           | 114244.00        | 195.81          | 2282.23         | 9802.00         | -10.28           | 105.65               | -49.98           | 2498.39              | 247.77           | 61391.13             |
| 11     | 2007         | 57.37                               | 280.24                               | 60.44                                | 78534.27         | 3653.31          | 16078.48        | 3467.84         | 16938.42        | 40.34            | 1627.59              | 201.26           | 40503.87             | -29.79           | 887.15               |
| 12     | 2008         | 41.43                               | 123.56                               | 81.84                                | 15267.83         | 6698.10          | 5118.74         | 3390.39         | 10112.64        | 24.40            | 595.14               | 44.58            | 1987.30              | -8.39            | 70.32                |
| 13     | 2009         | 2.90                                | 77.16                                | 21.98                                | 5953.68          | 483.26           | 223.53          | 63.68           | 1696.22         | -14.13           | 199.76               | -1.82            | 3.33                 | -68.24           | 4657.32              |
|        | <b>Total</b> | <b>221.40</b>                       | <b>1026.79</b>                       | <b>1172.96</b>                       | <b>147178.51</b> | <b>195596.57</b> | <b>31579.37</b> | <b>19273.08</b> | <b>79350.52</b> | <b>0.00</b>      | <b>3723.94</b>       | <b>0.00</b>      | <b>66078.49</b>      | <b>0.00</b>      | <b>89763.17</b>      |
| n = 13 | <b>Mean</b>  | <b>17.03</b>                        | <b>78.98</b>                         | <b>90.23</b>                         | $x_1^2$          | $x_2^2$          | $yx_1$          | $yx_2$          | $x_1x_2$        | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $221.40 = 13.00 a + 1026.79 b + 1172.96 c$

or  $17.03 = a + 78.98 b + 90.23 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$31579.37 = 78.98 a + 147178.51 b + 79350.52 c$

$399.82 = a + 1863.40 b + 1004.64 c$  Eq-2

or  $382.79 = 1784.41 b + 914.41 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$19273.08 = 1172.96 a + 79350.52 b + 195596.57 c$

$16.43 = a + 67.65 b + 166.75 c$  Eq-4

$399.82 = a + 1863.40 b + 1004.64 c$  Eq-2

or  $383.39 = 1795.75 b + 837.89 c$  Eq-5(Eq-2-Eq-4)

$380.97 = 1784.41 b + 832.60 c$

$382.79 = 1784.41 b + 914.41 c$  (Eq-3)

or  $-1.82 = -81.82 c$

or  $c = 0.0222$

$b = 0.2031$

$a = -1.0199$

$y = -1.0199 + 0.2031 x_1 + 0.0222 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(y \bar{x}_1)}{(n-1) \sigma_y \sigma_{x_1}} = 0.8984$

$R_{yx_2} = \frac{\sum(yx_2) - n(y \bar{x}_2)}{(n-1) \sigma_y \sigma_{x_2}} = -0.0385$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1 \bar{x}_2)}{(n-1) \sigma_{x_1} \sigma_{x_2}} = -0.1726$

$R_{yx_1x_2} = \sqrt{(1 - (R_{yx_1})^2) * (1 - (R_{yx_2})^2)} = 0.8985$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 17.62$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 74.21$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 86.49$

**ANNEXURE -V/30**

**WEEKLY CORRELATION EQUATION FOR 30<sup>th</sup> WEEK (23 JUL TO 29 JUL) FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 30 <sup>th</sup> Week Runoff in MCM | 30 <sup>th</sup> Week Rainfall in mm | 29 <sup>th</sup> Week Rainfall in mm | $x_1^2$          | $x_2^2$          | $yx_1$          | $yx_2$          | $x_1x_2$         | $y-y_{\bar{y}}$     | $(y-y_{\bar{y}})^2$     | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |
|--------|--------------|-------------------------------------|--------------------------------------|--------------------------------------|------------------|------------------|-----------------|-----------------|------------------|---------------------|-------------------------|---------------------|-------------------------|---------------------|-------------------------|
|        |              | y                                   | $x_1$                                | $x_2$                                |                  |                  |                 |                 |                  |                     |                         |                     |                         |                     |                         |
| 1      | 1993         | 9.76                                | 37.15                                | 58.14                                | 1380.48          | 3380.06          | 362.64          | 567.44          | 2160.12          | -8.40               | 70.59                   | -22.80              | 519.98                  | -29.27              | 856.50                  |
| 2      | 1994         | 12.55                               | 112.61                               | 32.20                                | 12680.45         | 1037.16          | 1412.79         | 404.05          | 3626.52          | -5.62               | 31.54                   | 52.65               | 2771.97                 | -55.20              | 3046.96                 |
| 3      | 1995         | 17.26                               | 40.52                                | 51.99                                | 1641.47          | 2703.35          | 699.43          | 897.59          | 2106.53          | -0.90               | 0.81                    | -19.44              | 378.03                  | -35.41              | 1253.91                 |
| 4      | 1996         | 11.39                               | 36.58                                | 27.68                                | 1337.86          | 766.14           | 416.58          | 315.25          | 1012.41          | -6.77               | 45.87                   | -23.38              | 546.68                  | -59.73              | 3567.08                 |
| 5      | 1997         | 32.10                               | 63.95                                | 138.87                               | 4088.97          | 19285.59         | 2052.95         | 4458.48         | 8880.21          | 13.94               | 194.40                  | 3.99                | 15.90                   | 51.47               | 2648.99                 |
| 6      | 1998         | 3.16                                | 20.20                                | 87.00                                | 408.04           | 7569.00          | 63.76           | 274.61          | 1757.40          | -15.01              | 225.17                  | -39.76              | 1580.70                 | -0.40               | 0.16                    |
| 7      | 1999         | 34.58                               | 124.50                               | 132.53                               | 15500.46         | 17565.48         | 4304.95         | 4582.75         | 16500.70         | 16.42               | 269.47                  | 64.54               | 4165.78                 | 45.13               | 2036.77                 |
| 8      | 2000         | 30.19                               | 98.36                                | 133.57                               | 9675.63          | 17841.08         | 2970.06         | 4033.07         | 13138.63         | 12.03               | 144.78                  | 38.41               | 1475.08                 | 46.17               | 2131.32                 |
| 9      | 2001         | 9.58                                | 72.13                                | 44.33                                | 5202.33          | 1965.34          | 691.31          | 424.90          | 3197.55          | -8.58               | 73.57                   | 12.17               | 148.09                  | -43.07              | 1855.21                 |
| 10     | 2002         | 14.25                               | 4.97                                 | 135.04                               | 24.73            | 18235.79         | 70.85           | 1923.72         | 671.60           | -3.92               | 15.34                   | -54.98              | 3023.31                 | 47.64               | 2269.16                 |
| 11     | 2003         | 9.06                                | 96.00                                | 0.00                                 | 9216.00          | 0.00             | 869.52          | 0.00            | 0.00             | -9.10               | 82.89                   | 36.04               | 1299.03                 | -87.40              | 7639.50                 |
| 12     | 2004         | 5.06                                | 11.14                                | 36.37                                | 124.19           | 1323.12          | 56.36           | 183.96          | 405.37           | -13.10              | 171.73                  | -48.81              | 2382.78                 | -51.03              | 2604.01                 |
| 13     | 2005         | 7.59                                | 20.83                                | 98.17                                | 433.83           | 9637.06          | 158.17          | 745.46          | 2044.71          | -10.57              | 111.69                  | -39.13              | 1531.11                 | 10.76               | 115.87                  |
| 14     | 2006         | 10.73                               | 40.50                                | 29.00                                | 1640.25          | 841.00           | 434.68          | 311.25          | 1174.50          | -7.43               | 55.19                   | -19.46              | 378.61                  | -58.40              | 3411.06                 |
| 15     | 2007         | 70.96                               | 204.59                               | 280.24                               | 41858.03         | 78534.27         | 14518.76        | 19887.02        | 57334.89         | 52.80               | 2788.08                 | 144.63              | 20919.11                | 192.84              | 37185.50                |
| 16     | 2008         | 29.49                               | 32.41                                | 123.56                               | 1050.60          | 15267.83         | 955.82          | 3643.74         | 4005.05          | 11.33               | 128.30                  | -27.54              | 758.73                  | 36.16               | 1307.46                 |
| 17     | 2009         | 1.04                                | 2.84                                 | 77.16                                | 8.08             | 5953.68          | 2.95            | 80.07           | 219.28           | -17.12              | 293.24                  | -57.12              | 3262.24                 | -10.24              | 104.94                  |
|        | <b>Total</b> | <b>308.76</b>                       | <b>1019.29</b>                       | <b>1485.87</b>                       | <b>106271.40</b> | <b>201905.95</b> | <b>30041.58</b> | <b>42733.38</b> | <b>118235.49</b> | <b>0.00</b>         | <b>4702.67</b>          | <b>0.00</b>         | <b>45157.13</b>         | <b>0.00</b>         | <b>72034.39</b>         |
| n = 17 | <b>Mean</b>  | <b>18.16</b>                        | <b>59.96</b>                         | <b>87.40</b>                         | $x_1^2$          | $x_2^2$          | $yx_1$          | $yx_2$          | $x_1x_2$         | $y_1-y_{\bar{y}_1}$ | $(y_1-y_{\bar{y}_1})^2$ | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $308.76 = 17.00 a + 1019.29 b + 1485.87 c$

or  $18.16 = a + 59.96 b + 87.40 c$

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$30041.58 = 59.96 a + 106271.40 b + 118235.49 c$

$501.04 = a + 1772.43 b + 1971.97 c$

or  $482.88 = 1712.47 b + 1884.57 c$

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$42733.38 = 1485.87 a + 118235.49 b + 201905.95 c$

$28.76 = a + 79.57 b + 135.88 c$

$501.04 = a + 1772.43 b + 1971.97 c$

or  $472.28 = 1692.86 b + 1836.09 c$

$477.76 = 1712.47 b + 1857.36 c$

$482.88 = 1712.47 b + 1884.57 c$

or  $-5.13 = -27.20 c$

or  $c = 0.1884$

$b = 0.0746$

$a = -2.7805$

$$y = -2.7805 + 0.0746 x_1 + 0.1884 x_2$$

Eq-1

$$\sigma_y = \sqrt{\sum (y - \bar{y})^2 / (n-1)} = 17.14$$

$$\sigma_{x_1} = \sqrt{\sum (x_1 - \bar{x}_1)^2 / (n-1)} = 53.13$$

$$\sigma_{x_2} = \sqrt{\sum (x_2 - \bar{x}_2)^2 / (n-1)} = 67.10$$

Eq-2

Eq-3(Eq2-Eq1)

Eq-4

Eq-2

Eq-5(Eq-2-Eq-4)

(Eq-3)

$$R_{yx_1} = \frac{\sum (yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.7912$$

$$R_{yx_2} = \frac{\sum (yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.8556$$

$$R_{x_1x_2} = \frac{\sum (x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.5110$$

$$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.9486$$

**ANNEXURE -V/31**

**WEEKLY CORRELATION EQUATION FOR 31<sup>st</sup> WEEK (30 JUL TO 05 AUG) FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 31 <sup>st</sup> Week Runoff in MCM | 31 <sup>st</sup> Week Rainfall in mm | 30 <sup>th</sup> Week Rainfall in mm | $x_1^2$         | $x_2^2$          | $yx_1$          | $yx_2$          | $x_1x_2$        | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|--------------------------------------|--------------------------------------|-----------------|------------------|-----------------|-----------------|-----------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                                | $x_2$                                |                 |                  |                 |                 |                 |                  |                      |                  |                      |                  |                      |
| 1      | 1993         | 13.52                               | 27.74                                | 37.15                                | 769.73          | 1380.48          | 375.08          | 502.31          | 1030.83         | -1.61            | 2.58                 | -14.57           | 212.18               | -22.80           | 519.98               |
| 2      | 1994         | 21.12                               | 74.03                                | 112.61                               | 5480.34         | 12680.45         | 1563.38         | 2378.08         | 8336.25         | 5.99             | 35.90                | 31.72            | 1006.08              | 52.65            | 2771.97              |
| 3      | 1995         | 12.99                               | 32.00                                | 40.52                                | 1023.77         | 1641.47          | 415.58          | 526.23          | 1296.33         | -2.14            | 4.57                 | -10.31           | 106.38               | -19.44           | 378.03               |
| 4      | 1996         | 6.67                                | 32.66                                | 36.58                                | 1066.83         | 1337.86          | 217.90          | 244.01          | 1194.68         | -8.46            | 71.50                | -9.65            | 93.09                | -23.38           | 546.68               |
| 5      | 1997         | 16.31                               | 34.24                                | 63.95                                | 1172.40         | 4088.97          | 558.31          | 1042.67         | 2189.50         | 1.18             | 1.39                 | -8.07            | 65.13                | 3.99             | 15.90                |
| 6      | 1998         | 6.07                                | 49.50                                | 20.20                                | 2450.25         | 408.04           | 300.65          | 122.69          | 999.90          | -9.05            | 81.96                | 7.19             | 51.69                | -39.76           | 1580.70              |
| 7      | 1999         | 30.30                               | 8.00                                 | 124.50                               | 64.00           | 15500.46         | 242.39          | 3772.17         | 996.01          | 15.17            | 230.17               | -34.31           | 1177.21              | 64.54            | 4165.78              |
| 8      | 2000         | 4.39                                | 15.28                                | 98.36                                | 233.36          | 9675.63          | 66.99           | 431.38          | 1502.64         | -10.74           | 115.38               | -27.03           | 730.85               | 38.41            | 1475.08              |
| 9      | 2001         | 14.77                               | 45.63                                | 72.13                                | 2082.09         | 5202.33          | 673.77          | 1065.02         | 3291.16         | -0.36            | 0.13                 | 3.32             | 11.02                | 12.17            | 148.09               |
| 10     | 2002         | 5.28                                | 5.62                                 | 4.97                                 | 31.55           | 24.73            | 29.68           | 26.28           | 27.93           | -9.84            | 96.89                | -36.69           | 1346.44              | -54.98           | 3023.31              |
| 11     | 2003         | 40.76                               | 75.60                                | 96.00                                | 5715.36         | 9216.00          | 3081.20         | 3912.63         | 7257.60         | 25.63            | 656.88               | 33.29            | 1108.19              | 36.04            | 1299.03              |
| 12     | 2004         | 10.61                               | 32.79                                | 11.14                                | 1074.87         | 124.19           | 347.81          | 118.23          | 365.37          | -4.52            | 20.41                | -9.53            | 90.73                | -48.81           | 2382.78              |
| 13     | 2005         | 5.82                                | 14.40                                | 20.83                                | 207.36          | 433.83           | 83.84           | 121.28          | 299.93          | -9.30            | 86.57                | -27.91           | 779.00               | -39.13           | 1531.11              |
| 14     | 2006         | 13.45                               | 42.00                                | 40.50                                | 1764.00         | 1640.25          | 564.90          | 544.73          | 1701.00         | -1.68            | 2.81                 | -0.31            | 0.10                 | -19.46           | 378.61               |
| 15     | 2007         | 44.67                               | 226.76                               | 204.59                               | 51419.61        | 41858.03         | 10128.52        | 9138.41         | 46393.14        | 29.54            | 872.59               | 184.45           | 34021.21             | 144.63           | 20919.11             |
| 16     | 2008         | 5.16                                | 2.75                                 | 32.41                                | 7.56            | 1050.60          | 14.20           | 167.34          | 89.14           | -9.96            | 99.28                | -39.56           | 1565.03              | -27.54           | 758.73               |
| 17     | 2009         | 5.28                                | 0.29                                 | 2.84                                 | 0.08            | 8.08             | 1.53            | 15.00           | 0.82            | -9.85            | 96.97                | -42.02           | 1765.76              | -57.12           | 3262.24              |
|        | <b>Total</b> | <b>257.16</b>                       | <b>719.28</b>                        | <b>1019.29</b>                       | <b>74563.16</b> | <b>106271.40</b> | <b>18665.72</b> | <b>24128.47</b> | <b>76972.23</b> | <b>0.00</b>      | <b>2475.99</b>       | <b>0.00</b>      | <b>44130.09</b>      | <b>0.00</b>      | <b>45157.13</b>      |
| n = 17 | <b>Mean</b>  | <b>15.13</b>                        | <b>42.31</b>                         | <b>59.96</b>                         | $x_1^2$         | $x_2^2$          | $yx_1$          | $yx_2$          | $x_1x_2$        | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |



Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $257.16 = 17.00 a + 719.28 b + 1019.29 c$

or  $15.13 = a + 42.31 b + 59.96 c$

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$18665.72 = 42.31 a + 74563.16 b + 76972.23 c$

$441.16 = a + 1762.28 b + 1819.22 c$

or  $426.03 = 1719.97 b + 1759.26 c$

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$24128.47 = 1019.29 a + 76972.23 b + 106271.40 c$

$23.67 = a + 75.52 b + 104.26 c$

$441.16 = a + 1762.28 b + 1819.22 c$

or  $417.49 = 1686.77 b + 1714.96 c$

$425.71 = 1719.97 b + 1748.72 c$

$426.03 = 1719.97 b + 1759.26 c$

or  $-0.33 = -10.54 c$

or  $c = 0.0310$

$b = 0.2160$

$a = 4.1301$

$$y = 4.1301 + 0.216 x_1 + 0.031 x_2$$

Eq-1

Eq-2

Eq-3(Eq2-Eq1)

Eq-4

Eq-2

Eq-5(Eq-2-Eq-4)

(Eq-3)

$$\sigma_y = \sqrt{\sum (y - \bar{y})^2 / (n-1)} = 12.44$$

$$\sigma_{x_1} = \sqrt{\sum (x_1 - \bar{x}_1)^2 / (n-1)} = 52.52$$

$$\sigma_{x_2} = \sqrt{\sum (x_2 - \bar{x}_2)^2 / (n-1)} = 53.13$$

$$R_{yx_1} = \frac{\sum (yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.7448$$

$$R_{yx_2} = \frac{\sum (yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.8237$$

$$R_{x_1x_2} = \frac{\sum (x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.7582$$

$$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.9257$$

**ANNEXURE -V/32**

**WEEKLY CORRELATION EQUATION FOR 32<sup>nd</sup> WEEK (06 AUG TO 12 AUG) FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 32 <sup>nd</sup> Week Runoff in MCM | 32 <sup>nd</sup> Week Rainfall in mm | 31 <sup>st</sup> Week Rainfall in mm | $x_1^2$         | $x_2^2$         | $yx_1$          | $yx_2$         | $x_1x_2$        | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|--------------------------------------|--------------------------------------|-----------------|-----------------|-----------------|----------------|-----------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                                | $x_2$                                |                 |                 |                 |                |                 |                  |                      |                  |                      |                  |                      |
| 1      | 1993         | 50.17                               | 146.21                               | 27.74                                | 21376.40        | 769.73          | 7335.02         | 1391.89        | 4056.37         | 32.73            | 1071.34              | 98.83            | 9767.13              | -21.79           | 474.62               |
| 2      | 1994         | 9.49                                | 41.03                                | 74.03                                | 1683.08         | 5480.34         | 389.14          | 702.19         | 3037.08         | -7.95            | 63.24                | -6.35            | 40.36                | 24.50            | 600.23               |
| 3      | 1995         | 22.70                               | 69.14                                | 32.00                                | 4780.64         | 1023.77         | 1569.51         | 726.31         | 2212.30         | 5.26             | 27.69                | 21.76            | 473.68               | -17.53           | 307.42               |
| 4      | 1996         | 46.57                               | 127.83                               | 32.66                                | 16340.75        | 1066.83         | 5953.63         | 1521.23        | 4175.26         | 29.14            | 848.95               | 80.45            | 6472.69              | -16.87           | 284.51               |
| 5      | 1998         | 13.30                               | 0.00                                 | 49.50                                | 0.00            | 2450.25         | 0.00            | 658.45         | 0.00            | -4.14            | 17.10                | -47.38           | 2244.67              | -0.03            | 0.00                 |
| 6      | 1999         | 9.93                                | 32.00                                | 8.00                                 | 1024.00         | 64.00           | 317.71          | 79.43          | 256.00          | -7.51            | 56.39                | -15.38           | 236.48               | -41.53           | 1724.72              |
| 7      | 2000         | 8.23                                | 41.76                                | 15.28                                | 1743.79         | 233.36          | 343.57          | 125.68         | 637.92          | -9.21            | 84.82                | -5.62            | 31.57                | -34.25           | 1173.30              |
| 8      | 2001         | 7.10                                | 0.00                                 | 45.63                                | 0.00            | 2082.09         | 0.00            | 323.84         | 0.00            | -10.34           | 106.92               | -47.38           | 2244.67              | -3.90            | 15.21                |
| 9      | 2003         | 16.30                               | 10.40                                | 75.60                                | 108.16          | 5715.36         | 169.53          | 1232.35        | 786.24          | -1.14            | 1.29                 | -36.98           | 1367.37              | 26.07            | 679.66               |
| 10     | 2005         | 11.08                               | 6.00                                 | 14.40                                | 36.00           | 207.36          | 66.50           | 159.60         | 86.40           | -6.35            | 40.38                | -41.38           | 1712.13              | -35.13           | 1234.10              |
| 11     | 2006         | 11.45                               | 46.00                                | 42.00                                | 2116.00         | 1764.00         | 526.63          | 480.84         | 1932.00         | -5.99            | 35.87                | -1.38            | 1.90                 | -7.53            | 56.70                |
| 12     | 2007         | 7.40                                | 32.20                                | 226.76                               | 1037.00         | 51419.61        | 238.34          | 1678.29        | 7302.20         | -10.04           | 100.73               | -15.18           | 230.29               | 177.23           | 31410.18             |
| 13     | 2009         | 12.97                               | 63.35                                | 0.29                                 | 4012.77         | 0.08            | 821.61          | 3.76           | 18.34           | -4.47            | 19.96                | 15.97            | 254.99               | -49.24           | 2424.60              |
|        | <b>Total</b> | <b>226.69</b>                       | <b>615.91</b>                        | <b>643.89</b>                        | <b>54258.58</b> | <b>72276.78</b> | <b>17731.19</b> | <b>9083.86</b> | <b>24500.10</b> | <b>0.00</b>      | <b>2474.68</b>       | <b>0.00</b>      | <b>25077.92</b>      | <b>0.00</b>      | <b>40385.24</b>      |
| n = 13 | <b>Mean</b>  | <b>17.44</b>                        | <b>47.38</b>                         | <b>49.53</b>                         | $x_1^2$         | $x_2^2$         | $yx_1$          | $yx_2$         | $x_1x_2$        | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $226.69 = 13.00 a + 615.91 b + 643.89 c$

or  $17.44 = a + 47.38 b + 49.53 c$

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$17731.19 = 47.38 a + 54258.58 b + 24500.10 c$

$374.25 = a + 1145.23 b + 517.12 c$

or  $356.81 = 1097.85 b + 467.59 c$

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$9083.86 = 643.89 a + 24500.10 b + 72276.78 c$

$14.11 = a + 38.05 b + 112.25 c$

$374.25 = a + 1145.23 b + 517.12 c$

or  $360.14 = 1107.18 b + 404.87 c$

$357.11 = 1097.85 b + 401.46 c$

$356.81 = 1097.85 b + 467.59 c$

or  $0.30 = -66.13 c$

or  $c = -0.0045$

$b = 0.3269$

$a = 2.1704$

$y = 2.1704 + 0.3269 x_1 - 0.0045 x_2$

Eq-1

$$\sigma_y = \sqrt{\sum (y - \bar{y})^2 / (n-1)} = 14.36$$

$$\sigma_{x_1} = \sqrt{\sum (x_1 - \bar{x}_1)^2 / (n-1)} = 45.71$$

$$\sigma_{x_2} = \sqrt{\sum (x_2 - \bar{x}_2)^2 / (n-1)} = 58.01$$

Eq-2

Eq-3(Eq2-Eq1)

Eq-4

Eq-2

Eq-5(Eq-2-Eq-4)

(Eq-3)

$$R_{yx_1} = \frac{\sum (yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.8875$$

$$R_{yx_2} = \frac{\sum (yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = -0.2145$$

$$R_{x_1x_2} = \frac{\sum (x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = -0.1887$$

$$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.8929$$

**ANNEXURE -V/33**

**WEEKLY CORRELATION EQUATION FOR 33<sup>rd</sup> WEEK (13 AUG TO 19 AUG) FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 33 <sup>rd</sup> Week Runoff in MCM | 33 <sup>rd</sup> Week Rainfall in mm | 32 <sup>nd</sup> Week Rainfall in mm | $x_1^2$         | $x_2^2$          | $yx_1$          | $yx_2$          | $x_1x_2$        | $y-y_{\bar{y}}$     | $(y-y_{\bar{y}})^2$     | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |
|--------|--------------|-------------------------------------|--------------------------------------|--------------------------------------|-----------------|------------------|-----------------|-----------------|-----------------|---------------------|-------------------------|---------------------|-------------------------|---------------------|-------------------------|
|        |              | y                                   | $x_1$                                | $x_2$                                |                 |                  |                 |                 |                 |                     |                         |                     |                         |                     |                         |
| 1      | 1993         | 19.25                               | 25.54                                | 146.21                               | 652.48          | 21376.40         | 491.84          | 2815.16         | 3734.66         | -12.20              | 148.93                  | -46.98              | 2207.03                 | 70.76               | 5007.42                 |
| 2      | 1995         | 17.12                               | 37.33                                | 69.14                                | 1393.25         | 4780.64          | 639.20          | 1184.04         | 2580.82         | -14.33              | 205.46                  | -35.20              | 1238.80                 | -6.30               | 39.71                   |
| 3      | 1996         | 21.89                               | 67.09                                | 127.83                               | 4500.42         | 16340.75         | 1468.34         | 2797.93         | 8575.56         | -9.57               | 91.60                   | -5.44               | 29.57                   | 52.39               | 2744.44                 |
| 4      | 1997         | 34.80                               | 99.40                                | 131.06                               | 9879.76         | 17175.78         | 3459.22         | 4561.03         | 13026.61        | 3.34                | 11.18                   | 26.87               | 722.22                  | 55.61               | 3092.79                 |
| 5      | 1999         | 52.12                               | 119.00                               | 32.00                                | 14161.00        | 1024.00          | 6202.81         | 1667.98         | 3808.00         | 20.67               | 427.08                  | 46.48               | 2160.13                 | -43.44              | 1887.34                 |
| 6      | 2000         | 14.76                               | 39.72                                | 41.76                                | 1577.80         | 1743.79          | 586.21          | 616.28          | 1658.72         | -16.70              | 278.91                  | -32.80              | 1075.93                 | -33.68              | 1134.66                 |
| 7      | 2001         | 11.99                               | 32.23                                | 0.00                                 | 1038.85         | 0.00             | 386.37          | 0.00            | 0.00            | -19.47              | 379.13                  | -40.29              | 1623.41                 | -75.44              | 5691.73                 |
| 8      | 2003         | 18.25                               | 81.37                                | 10.40                                | 6620.96         | 108.16           | 1484.63         | 189.75          | 846.24          | -13.21              | 174.58                  | 8.85                | 78.26                   | -65.04              | 4230.66                 |
| 9      | 2004         | 14.14                               | 81.64                                | 158.91                               | 6665.63         | 25251.41         | 1154.07         | 2246.24         | 12973.69        | -17.32              | 300.09                  | 9.12                | 83.18                   | 83.46               | 6966.14                 |
| 10     | 2006         | 6.81                                | 44.00                                | 46.00                                | 1936.00         | 2116.00          | 299.81          | 313.44          | 2024.00         | -24.64              | 607.36                  | -28.52              | 813.55                  | -29.44              | 866.92                  |
| 11     | 2007         | 136.35                              | 190.23                               | 32.20                                | 36186.64        | 1037.00          | 25937.80        | 4390.85         | 6125.81         | 104.89              | 11002.48                | 117.71              | 13854.48                | -43.24              | 1869.79                 |
| 12     | 2008         | 30.02                               | 52.73                                | 109.82                               | 2780.26         | 12060.01         | 1582.74         | 3296.41         | 5790.51         | -1.44               | 2.08                    | -19.79              | 391.83                  | 34.37               | 1181.61                 |
|        | <b>Total</b> | <b>377.50</b>                       | <b>870.27</b>                        | <b>905.32</b>                        | <b>87393.05</b> | <b>103013.94</b> | <b>43693.05</b> | <b>24079.12</b> | <b>61144.61</b> | <b>0.00</b>         | <b>13628.87</b>         | <b>0.00</b>         | <b>24278.39</b>         | <b>0.00</b>         | <b>34713.21</b>         |
| n = 12 | <b>Mean</b>  | <b>31.46</b>                        | <b>72.52</b>                         | <b>75.44</b>                         | $x_1^2$         | $x_2^2$          | $yx_1$          | $yx_2$          | $x_1x_2$        | $y_1-y_{\bar{y}_1}$ | $(y_1-y_{\bar{y}_1})^2$ | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $377.50 = 12.00 a + 870.27 b + 905.32 c$

or  $31.46 = a + 72.52 b + 75.44 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

43693.05 = 72.52 a + 87393.05 b + 61144.61 c

602.47 = a + 1205.04 b + 843.11 c Eq-2

or  $571.01 = 1132.52 b + 767.67 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

24079.12 = 905.32 a + 61144.61 b + 103013.94 c

26.60 = a + 67.54 b + 113.79 c Eq-4

602.47 = a + 1205.04 b + 843.11 c Eq-2

or  $575.88 = 1137.50 b + 729.32 c$  Eq-5(Eq-2-Eq-4)

573.35 = 1132.52 b + 726.13 c

571.01 = 1132.52 b + 767.67 c (Eq-3)

or  $2.34 = -41.54 c$

or  $c = -0.0563$

$b = 0.5424$

$a = -3.6278$

$y = -3.6278 + 0.5424 x_1 - 0.0563 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.8969$

$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = -0.2023$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = -0.1554$

$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.9014$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 35.20$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 46.98$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 56.18$

**ANNEXURE -V/34**

**WEEKLY CORRELATION EQUATION FOR 34<sup>th</sup> WEEK (20 AUG TO 26 AUG) FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 34 <sup>th</sup> Week Runoff in MCM | 34 <sup>th</sup> Week Rainfall in mm | 33 <sup>rd</sup> Week Rainfall in mm | $x_1^2$         | $x_2^2$          | $yx_1$          | $yx_2$          | $x_1x_2$        | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|--------------------------------------|--------------------------------------|-----------------|------------------|-----------------|-----------------|-----------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                                | $x_2$                                |                 |                  |                 |                 |                 |                  |                      |                  |                      |                  |                      |
| 1      | 1993         | 17.74                               | 114.93                               | 25.54                                | 13209.94        | 652.48           | 2038.85         | 453.13          | 2935.86         | -0.73            | 0.54                 | 55.46            | 3075.32              | -71.33           | 5088.01              |
| 2      | 1995         | 12.48                               | 34.44                                | 37.33                                | 1186.31         | 1393.25          | 429.71          | 465.68          | 1285.62         | -6.00            | 35.94                | -25.04           | 626.80               | -59.55           | 3545.94              |
| 3      | 1997         | 12.88                               | 25.77                                | 99.40                                | 664.28          | 9879.76          | 332.09          | 1280.72         | 2561.83         | -5.59            | 31.21                | -33.71           | 1136.04              | 2.52             | 6.37                 |
| 4      | 1998         | 38.18                               | 175.30                               | 175.50                               | 30730.09        | 30800.25         | 6692.23         | 6699.87         | 30765.15        | 19.70            | 388.28               | 115.82           | 13414.52             | 78.63            | 6182.04              |
| 5      | 1999         | 26.23                               | 98.50                                | 119.00                               | 9702.25         | 14161.00         | 2583.54         | 3121.23         | 11721.50        | 7.76             | 60.18                | 39.02            | 1522.64              | 22.13            | 489.56               |
| 6      | 2000         | 3.69                                | 0.00                                 | 39.72                                | 0.00            | 1577.80          | 0.00            | 146.66          | 0.00            | -14.78           | 218.42               | -59.48           | 3537.75              | -57.15           | 3266.42              |
| 7      | 2001         | 17.75                               | 41.05                                | 32.23                                | 1684.75         | 1038.85          | 728.64          | 572.16          | 1322.95         | -0.72            | 0.52                 | -18.43           | 339.79               | -64.64           | 4178.69              |
| 8      | 2002         | 23.26                               | 57.28                                | 183.65                               | 3280.95         | 33728.90         | 1332.51         | 4272.39         | 10519.65        | 4.79             | 22.96                | -2.20            | 4.84                 | 86.78            | 7530.81              |
| 9      | 2003         | 26.12                               | 49.17                                | 81.37                                | 2418.05         | 6620.96          | 1284.55         | 2125.59         | 4001.23         | 7.65             | 58.55                | -10.31           | 106.20               | -15.50           | 240.40               |
| 10     | 2004         | 15.09                               | 51.04                                | 81.64                                | 2604.66         | 6665.63          | 769.95          | 1231.71         | 4166.74         | -3.38            | 11.46                | -8.44            | 71.28                | -15.23           | 231.98               |
| 11     | 2007         | 9.76                                | 6.78                                 | 190.23                               | 46.00           | 36186.64         | 66.20           | 1856.72         | 1290.20         | -8.71            | 75.87                | -52.70           | 2776.93              | 93.35            | 8714.94              |
|        | <b>Total</b> | <b>203.18</b>                       | <b>654.27</b>                        | <b>1065.61</b>                       | <b>65527.30</b> | <b>142705.52</b> | <b>16258.27</b> | <b>22225.86</b> | <b>70570.73</b> | <b>0.00</b>      | <b>903.92</b>        | <b>0.00</b>      | <b>26612.10</b>      | <b>0.00</b>      | <b>39475.14</b>      |
| n = 11 | <b>Mean</b>  | <b>18.47</b>                        | <b>59.48</b>                         | <b>96.87</b>                         | $x_1^2$         | $x_2^2$          | $yx_1$          | $yx_2$          | $x_1x_2$        | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $203.18 = 11.00 a + 654.27 b + 1065.61 c$

or  $18.47 = a + 59.48 b + 96.87 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$16258.27 = 59.48 a + 65527.30 b + 70570.73 c$

$273.34 = a + 1101.69 b + 1186.48 c$  Eq-2

or  $254.87 = 1042.21 b + 1089.61 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$22225.86 = 1065.61 a + 70570.73 b + 142705.52 c$

$20.86 = a + 66.23 b + 133.92 c$  Eq-4

$273.34 = a + 1101.69 b + 1186.48 c$  Eq-2

or  $252.49 = 1035.46 b + 1052.56 c$  Eq-5(Eq-2-Eq-4)

$254.13 = 1042.21 b + 1059.42 c$

$254.87 = 1042.21 b + 1089.61 c$  (Eq-3)

or  $-0.74 = -30.19 c$

or  $c = 0.0246$

$b = 0.2189$

$a = 3.0736$

$$y = 3.0736 + 0.2189 x_1 + 0.0246 x_2$$

$$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.8509$$

$$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.4257$$

$$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.2218$$

$$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.8798$$

$$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 9.51$$

$$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 51.59$$

$$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 62.83$$

**ANNEXURE -V/35**

**WEEKLY CORRELATION EQUATION FOR 35<sup>th</sup> WEEK (27 AUG TO 02 SEP) FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 35 <sup>th</sup> Week Runoff in MCM | 35 <sup>th</sup> Week Rainfall in mm | 34 <sup>th</sup> Week Rainfall in mm | $x_1^2$         | $x_2^2$         | $yx_1$          | $yx_2$          | $x_1x_2$        | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|--------------------------------------|--------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                                | $x_2$                                |                 |                 |                 |                 |                 |                  |                      |                  |                      |                  |                      |
| 1      | 1994         | 10.51                               | 27.78                                | 124.76                               | 771.64          | 15563.88        | 291.83          | 1310.65         | 3465.50         | -9.81            | 96.30                | -30.42           | 925.64               | 60.92            | 3710.89              |
| 2      | 1995         | 6.69                                | 1.30                                 | 34.44                                | 1.70            | 1186.31         | 8.72            | 230.44          | 44.87           | -13.63           | 185.74               | -56.90           | 3237.59              | -29.40           | 864.08               |
| 3      | 1996         | 18.11                               | 30.93                                | 74.75                                | 956.39          | 5587.09         | 559.97          | 1353.44         | 2311.58         | -2.21            | 4.89                 | -27.28           | 744.04               | 10.91            | 119.00               |
| 4      | 1997         | 31.16                               | 128.65                               | 25.77                                | 16550.61        | 664.28          | 4008.76         | 803.12          | 3315.77         | 10.84            | 117.53               | 70.45            | 4962.71              | -38.06           | 1448.90              |
| 5      | 1998         | 39.10                               | 169.50                               | 175.30                               | 28730.25        | 30730.09        | 6626.84         | 6853.60         | 29713.35        | 18.78            | 352.59               | 111.30           | 12387.09             | 111.46           | 12423.74             |
| 6      | 1999         | 59.23                               | 142.50                               | 98.50                                | 20306.25        | 9702.25         | 8440.56         | 5834.35         | 14036.25        | 38.91            | 1514.21              | 84.30            | 7106.04              | 34.66            | 1201.44              |
| 7      | 2001         | 22.47                               | 116.94                               | 41.05                                | 13674.31        | 1684.75         | 2627.26         | 922.18          | 4799.77         | 2.15             | 4.61                 | 58.73            | 3449.75              | -22.79           | 519.50               |
| 8      | 2002         | 7.35                                | 13.25                                | 57.28                                | 175.61          | 3280.95         | 97.40           | 421.01          | 759.06          | -12.97           | 168.20               | -44.95           | 2020.57              | -6.56            | 43.01                |
| 9      | 2003         | 18.64                               | 39.81                                | 49.17                                | 1585.20         | 2418.05         | 742.23          | 916.71          | 1957.83         | -1.68            | 2.81                 | -18.39           | 338.12               | -14.66           | 215.05               |
| 10     | 2005         | 6.19                                | 0.00                                 | 10.40                                | 0.00            | 108.16          | 0.00            | 64.32           | 0.00            | -14.13           | 199.77               | -58.20           | 3387.55              | -53.44           | 2855.64              |
| 11     | 2007         | 16.33                               | 18.11                                | 6.78                                 | 327.98          | 46.00           | 295.70          | 110.74          | 122.83          | -3.99            | 15.93                | -40.09           | 1607.41              | -57.06           | 3255.36              |
| 12     | 2008         | 8.07                                | 9.66                                 | 67.86                                | 93.36           | 4604.70         | 77.94           | 547.32          | 655.68          | -12.25           | 150.15               | -48.54           | 2356.14              | 4.02             | 16.16                |
|        | <b>Total</b> | <b>243.83</b>                       | <b>698.43</b>                        | <b>766.06</b>                        | <b>83173.29</b> | <b>75576.51</b> | <b>23777.19</b> | <b>19367.88</b> | <b>61182.49</b> | <b>0.00</b>      | <b>2812.74</b>       | <b>0.00</b>      | <b>42522.67</b>      | <b>0.00</b>      | <b>26672.78</b>      |
| n = 12 | <b>Mean</b>  | <b>20.32</b>                        | <b>58.20</b>                         | <b>63.84</b>                         | $x_1^2$         | $x_2^2$         | $yx_1$          | $yx_2$          | $x_1x_2$        | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |



Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $243.83 = 12.00 a + 698.43 b + 766.06 c$

or  $20.32 = a + 58.20 b + 63.84 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$23777.19 = 58.20 a + 83173.29 b + 61182.49 c$

$408.52 = a + 1429.03 b + 1051.20 c$  Eq-2

or  $388.20 = 1370.83 b + 987.36 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$19367.88 = 766.06 a + 61182.49 b + 75576.51 c$

$25.28 = a + 79.87 b + 98.66 c$  Eq-4

$408.52 = a + 1429.03 b + 1051.20 c$  Eq-2

or  $383.24 = 1349.16 b + 952.54 c$  Eq-5(Eq-2-Eq-4)

$389.40 = 1370.83 b + 967.84 c$

$388.20 = 1370.83 b + 987.36 c$  (Eq-3)

or  $1.19 = -19.52 c$

or  $c = -0.0610$

$b = 0.3271$

$a = 5.1732$

$y = 5.1732 + 0.3271 x_1 - 0.061 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(y \bar{x}_1)}{(n-1) \sigma_y \sigma_{x_1}} = 0.8765$

$R_{yx_2} = \frac{\sum(yx_2) - n(y \bar{x}_2)}{(n-1) \sigma_y \sigma_{x_2}} = 0.4390$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1 \bar{x}_2)}{(n-1) \sigma_{x_1} \sigma_{x_2}} = 0.4928$

$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.9016$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 15.99$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 62.17$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 49.24$

**ANNEXURE -V/36**

**WEEKLY CORRELATION EQUATION FOR 36<sup>th</sup> WEEK (03SEP TO 09 SEP) FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 36 <sup>th</sup> Week Runoff in MCM | 36 <sup>th</sup> Week Rainfall in mm | 35 <sup>th</sup> Week Rainfall in mm | $x_1^2$         | $x_2^2$          | $yx_1$          | $yx_2$          | $x_1x_2$        | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|--------------------------------------|--------------------------------------|-----------------|------------------|-----------------|-----------------|-----------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                                | $x_2$                                |                 |                  |                 |                 |                 |                  |                      |                  |                      |                  |                      |
| 1      | 1994         | 7.26                                | 14.01                                | 27.78                                | 196.25          | 771.64           | 101.69          | 201.64          | 389.15          | -16.00           | 255.89               | -29.20           | 852.41               | -31.99           | 1023.32              |
| 2      | 1995         | 23.30                               | 101.49                               | 1.30                                 | 10301.13        | 1.70             | 2364.91         | 30.36           | 132.23          | 0.05             | 0.00                 | 58.29            | 3397.65              | -58.46           | 3418.14              |
| 3      | 1996         | 32.91                               | 12.65                                | 30.93                                | 160.11          | 956.39           | 416.39          | 1017.66         | 391.32          | 9.65             | 93.15                | -30.55           | 933.40               | -28.84           | 831.87               |
| 4      | 1997         | 13.19                               | 37.36                                | 128.65                               | 1395.55         | 16550.61         | 492.59          | 1696.36         | 4805.95         | -10.07           | 101.39               | -5.85            | 34.20                | 68.88            | 4744.66              |
| 5      | 1998         | 111.39                              | 197.70                               | 169.50                               | 39085.29        | 28730.25         | 22022.48        | 18881.18        | 33510.15        | 88.14            | 7768.31              | 154.49           | 23868.66             | 109.73           | 12041.18             |
| 6      | 1999         | 13.93                               | 0.00                                 | 142.50                               | 0.00            | 20306.25         | 0.00            | 1985.21         | 0.00            | -9.32            | 86.94                | -43.21           | 1866.68              | 82.73            | 6844.64              |
| 7      | 2000         | 19.29                               | 31.95                                | 135.16                               | 1020.81         | 18269.24         | 616.18          | 2606.74         | 4318.50         | -3.97            | 15.76                | -11.25           | 126.67               | 75.40            | 5684.57              |
| 8      | 2001         | 41.05                               | 129.27                               | 116.94                               | 16711.19        | 13674.31         | 5306.20         | 4799.91         | 15116.68        | 17.79            | 316.54               | 86.07            | 7407.46              | 57.17            | 3268.36              |
| 9      | 2002         | 7.38                                | 9.24                                 | 13.25                                | 85.31           | 175.61           | 68.20           | 97.86           | 122.40          | -15.87           | 251.89               | -33.97           | 1153.88              | -46.52           | 2163.72              |
| 10     | 2003         | 15.03                               | 36.39                                | 39.81                                | 1324.55         | 1585.20          | 547.12          | 598.53          | 1449.02         | -8.22            | 67.61                | -6.81            | 46.39                | -19.95           | 398.13               |
| 11     | 2004         | 12.74                               | 25.98                                | 37.42                                | 674.86          | 1400.20          | 330.96          | 476.73          | 972.08          | -10.52           | 110.57               | -17.23           | 296.77               | -22.35           | 499.45               |
| 12     | 2005         | 10.39                               | 1.40                                 | 0.00                                 | 1.96            | 0.00             | 14.54           | 0.00            | 0.00            | -12.87           | 165.64               | -41.81           | 1747.67              | -59.77           | 3572.18              |
| 13     | 2006         | 5.11                                | 6.50                                 | 25.50                                | 42.25           | 650.25           | 33.23           | 130.37          | 165.75          | -18.14           | 329.16               | -36.71           | 1347.27              | -34.27           | 1174.27              |
| 14     | 2007         | 20.55                               | 32.20                                | 18.11                                | 1036.60         | 327.98           | 661.48          | 372.08          | 583.08          | -2.71            | 7.35                 | -11.01           | 121.19               | -41.66           | 1735.35              |
| 15     | 2008         | 15.32                               | 11.94                                | 9.66                                 | 142.47          | 93.36            | 182.87          | 148.03          | 115.33          | -7.94            | 62.96                | -31.27           | 977.75               | -50.11           | 2510.52              |
|        | <b>Total</b> | <b>348.83</b>                       | <b>648.08</b>                        | <b>896.52</b>                        | <b>72178.34</b> | <b>103492.98</b> | <b>33158.84</b> | <b>33042.65</b> | <b>62071.64</b> | <b>0.00</b>      | <b>9633.17</b>       | <b>0.00</b>      | <b>44178.08</b>      | <b>0.00</b>      | <b>49910.35</b>      |
| n = 15 | <b>Mean</b>  | <b>23.26</b>                        | <b>43.21</b>                         | <b>59.77</b>                         | $x_1^2$         | $x_2^2$          | $yx_1$          | $yx_2$          | $x_1x_2$        | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $348.83 = 15.00 a + 648.08 b + 896.52 c$

or  $23.26 = a + 43.21 b + 59.77 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

33158.84 = 43.21 a + 72178.34 b + 62071.64 c

767.47 = a + 1670.60 b + 1436.67 c Eq-2

or  $744.22 = 1627.39 b + 1376.91 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

33042.65 = 896.52 a + 62071.64 b + 103492.98 c

36.86 = a + 69.24 b + 115.44 c Eq-4

767.47 = a + 1670.60 b + 1436.67 c Eq-2

or  $730.62 = 1601.36 b + 1321.23 c$  Eq-5(Eq-2-Eq-4)

742.49 = 1627.39 b + 1342.71 c

744.22 = 1627.39 b + 1376.91 c (Eq-3)

or  $-1.72 = -34.19 c$

or  $c = 0.0504$

$b = 0.4146$

$a = 2.3266$

$y = 2.3266 + 0.4146 x_1 + 0.0504 x_2$

$\sigma_y = \sqrt{\sum (y - \bar{y})^2 / (n-1)} = 26.23$

$\sigma_{x_1} = \sqrt{\sum (x_1 - \bar{x}_1)^2 / (n-1)} = 56.17$

$\sigma_{x_2} = \sqrt{\sum (x_2 - \bar{x}_2)^2 / (n-1)} = 59.71$

$R_{yx_1} = \frac{\sum (yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.8768$

$R_{yx_2} = \frac{\sum (yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.5561$

$R_{x_1x_2} = \frac{\sum (x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.4970$

$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.9167$

**ANNEXURE -V/37**

**WEEKLY CORRELATION EQUATION FOR 37<sup>th</sup> WEEK (10 SEP TO 16 SEP) FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 37 <sup>th</sup> Week Runoff in MCM | 37 <sup>th</sup> Week Rainfall in mm | 36 <sup>th</sup> Week Rainfall in mm | $x_1^2$         | $x_2^2$         | $yx_1$          | $yx_2$          | $x_1x_2$        | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|--------------------------------------|--------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                                | $x_2$                                |                 |                 |                 |                 |                 |                  |                      |                  |                      |                  |                      |
| 1      | 1993         | 29.39                               | 122.35                               | 136.96                               | 14970.39        | 18757.30        | 3596.29         | 4025.54         | 16757.21        | 11.60            | 134.54               | 76.17            | 5802.10              | 87.25            | 7612.72              |
| 2      | 1994         | 15.68                               | 129.05                               | 14.01                                | 16653.02        | 196.25          | 2024.03         | 219.72          | 1807.82         | -2.11            | 4.45                 | 82.86            | 6866.53              | -35.70           | 1274.30              |
| 3      | 1996         | 11.96                               | 1.30                                 | 12.65                                | 1.70            | 160.11          | 15.58           | 151.30          | 16.49           | -5.84            | 34.07                | -44.88           | 2014.14              | -37.05           | 1372.91              |
| 4      | 1998         | 47.25                               | 5.00                                 | 197.70                               | 25.00           | 39085.29        | 236.25          | 9341.39         | 988.50          | 29.46            | 867.71               | -41.18           | 1695.96              | 147.99           | 21902.11             |
| 5      | 2000         | 19.57                               | 13.61                                | 31.95                                | 185.16          | 1020.81         | 266.23          | 625.12          | 434.76          | 1.77             | 3.14                 | -32.57           | 1061.11              | -17.76           | 315.28               |
| 6      | 2001         | 24.56                               | 66.56                                | 129.27                               | 4429.93         | 16711.19        | 1634.58         | 3174.77         | 8604.04         | 6.77             | 45.77                | 20.38            | 415.17               | 79.57            | 6330.65              |
| 7      | 2002         | 17.60                               | 87.74                                | 9.24                                 | 7697.50         | 85.31           | 1544.51         | 162.60          | 810.35          | -0.19            | 0.04                 | 41.55            | 1726.68              | -40.47           | 1637.83              |
| 8      | 2003         | 15.51                               | 18.69                                | 36.39                                | 349.15          | 1324.55         | 289.85          | 564.55          | 680.05          | -2.28            | 5.20                 | -27.50           | 756.05               | -13.31           | 177.21               |
| 9      | 2004         | 10.48                               | 23.47                                | 25.98                                | 550.77          | 674.86          | 245.88          | 272.17          | 609.67          | -7.32            | 53.53                | -22.71           | 515.90               | -23.73           | 563.03               |
| 10     | 2005         | 16.54                               | 8.10                                 | 1.40                                 | 65.61           | 1.96            | 133.98          | 23.16           | 11.34           | -1.25            | 1.57                 | -38.08           | 1450.24              | -48.31           | 2333.51              |
| 11     | 2006         | 2.06                                | 76.50                                | 6.50                                 | 5852.25         | 42.25           | 157.56          | 13.39           | 497.25          | -15.73           | 247.55               | 30.32            | 919.18               | -43.21           | 1866.79              |
| 12     | 2007         | 8.37                                | 23.45                                | 32.20                                | 549.71          | 1036.60         | 196.20          | 269.43          | 754.87          | -9.43            | 88.83                | -22.74           | 516.93               | -17.51           | 306.60               |
| 13     | 2008         | 12.34                               | 24.56                                | 11.94                                | 603.34          | 142.47          | 303.21          | 147.34          | 293.19          | -5.45            | 29.70                | -21.62           | 467.38               | -37.77           | 1426.59              |
|        | <b>Total</b> | <b>231.31</b>                       | <b>600.37</b>                        | <b>646.18</b>                        | <b>51933.54</b> | <b>79238.95</b> | <b>10644.16</b> | <b>18990.47</b> | <b>32265.52</b> | <b>0.00</b>      | <b>1516.10</b>       | <b>0.00</b>      | <b>24207.38</b>      | <b>0.00</b>      | <b>47119.55</b>      |
| n = 13 | <b>Mean</b>  | <b>17.79</b>                        | <b>46.18</b>                         | <b>49.71</b>                         | $x_1^2$         | $x_2^2$         | $yx_1$          | $yx_2$          | $x_1x_2$        | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $231.31 = 13.00 a + 600.37 b + 646.18 c$

or  $17.79 = a + 46.18 b + 49.71 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$10644.16 = 46.18 a + 51933.54 b + 32265.52 c$

$230.48 = a + 1124.54 b + 698.66 c$  Eq-2

or  $212.69 = 1078.36 b + 648.95 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$18990.47 = 646.18 a + 32265.52 b + 79238.95 c$

$29.39 = a + 49.93 b + 122.63 c$  Eq-4

$230.48 = a + 1124.54 b + 698.66 c$  Eq-2

or  $201.09 = 1074.61 b + 576.03 c$  Eq-5(Eq-2-Eq-4)

$201.80 = 1078.36 b + 578.04 c$

$212.69 = 1078.36 b + 648.95 c$  (Eq-3)

or  $-10.89 = -70.91 c$

or  $c = 0.1536$

$b = 0.1048$

$a = 5.3181$

$y = 5.3181 + 0.1048 x_1 + 0.1536 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = -0.0063$

$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.8865$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.0718$

$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.8865$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 11.24$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 44.91$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 62.66$

**ANNEXURE -V/38**

**WEEKLY CORRELATION EQUATION FOR 38<sup>th</sup> WEEK (17 SEP TO 23 SEP) FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 38 <sup>th</sup> Week Runoff in MCM | 38 <sup>th</sup> Week Rainfall in mm | 37 <sup>th</sup> Week Rainfall in mm | $x_1^2$          | $x_2^2$         | $yx_1$           | $yx_2$          | $x_1x_2$        | $y-y_{\bar{y}}$   | $(y-y_{\bar{y}})^2$   | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |
|--------|--------------|-------------------------------------|--------------------------------------|--------------------------------------|------------------|-----------------|------------------|-----------------|-----------------|-------------------|-----------------------|---------------------|-------------------------|---------------------|-------------------------|
|        |              | y                                   | $x_1$                                | $x_2$                                |                  |                 |                  |                 |                 |                   |                       |                     |                         |                     |                         |
| 1      | 1993         | 11.82                               | 2.85                                 | 122.35                               | 8.14             | 14970.39        | 33.72            | 1446.16         | 349.06          | -32.12            | 1031.40               | -87.83              | 7713.65                 | 73.90               | 5461.18                 |
| 2      | 1994         | 7.16                                | 28.19                                | 129.05                               | 794.75           | 16653.02        | 201.95           | 924.44          | 3637.99         | -36.77            | 1352.12               | -62.49              | 3904.87                 | 80.59               | 6495.21                 |
| 3      | 1995         | 22.88                               | 57.36                                | 9.29                                 | 3290.18          | 86.39           | 1312.39          | 212.67          | 533.15          | -21.05            | 443.31                | -33.32              | 1110.23                 | -39.16              | 1533.42                 |
| 4      | 1996         | 12.42                               | 6.14                                 | 1.30                                 | 37.67            | 1.70            | 76.21            | 16.18           | 8.00            | -31.52            | 993.42                | -84.54              | 7147.43                 | -47.15              | 2223.21                 |
| 5      | 1997         | 29.29                               | 84.52                                | 40.16                                | 7143.58          | 1612.54         | 2475.29          | 1176.04         | 3394.02         | -14.65            | 214.57                | -6.16               | 37.95                   | -8.30               | 68.84                   |
| 6      | 1998         | 12.81                               | 0.00                                 | 5.00                                 | 0.00             | 25.00           | 0.00             | 64.06           | 0.00            | -31.12            | 968.57                | -90.68              | 8222.92                 | -43.45              | 1888.23                 |
| 7      | 1999         | 17.45                               | 30.00                                | 159.00                               | 900.00           | 25281.00        | 523.51           | 2774.63         | 4770.00         | -26.48            | 701.42                | -60.68              | 3682.10                 | 110.55              | 12220.48                |
| 8      | 2000         | 311.37                              | 590.37                               | 13.61                                | 348540.55        | 185.16          | 183825.68        | 4236.96         | 8033.43         | 267.44            | 71522.62              | 499.69              | 249693.03               | -34.85              | 1214.27                 |
| 9      | 2001         | 34.11                               | 156.84                               | 66.56                                | 24600.16         | 4429.93         | 5349.50          | 2270.09         | 10439.21        | -9.83             | 96.59                 | 66.16               | 4377.69                 | 18.10               | 327.76                  |
| 10     | 2002         | 15.83                               | 77.16                                | 87.74                                | 5954.18          | 7697.50         | 1221.86          | 1389.26         | 6769.96         | -28.10            | 789.62                | -13.52              | 182.71                  | 39.28               | 1543.05                 |
| 11     | 2003         | 20.56                               | 8.10                                 | 18.69                                | 65.54            | 349.15          | 166.45           | 384.20          | 151.27          | -23.37            | 546.33                | -82.58              | 6820.24                 | -29.77              | 886.14                  |
| 12     | 2004         | 61.19                               | 136.66                               | 23.47                                | 18675.10         | 550.77          | 8362.57          | 1436.13         | 3207.14         | 17.26             | 297.88                | 45.98               | 2113.85                 | -24.99              | 624.26                  |
| 13     | 2005         | 13.16                               | 10.40                                | 8.10                                 | 108.16           | 65.61           | 136.88           | 106.61          | 84.24           | -30.77            | 946.99                | -80.28              | 6444.93                 | -40.35              | 1628.42                 |
| 14     | 2006         | 131.75                              | 247.20                               | 76.50                                | 61107.84         | 5852.25         | 32568.30         | 10078.78        | 18910.80        | 87.81             | 7711.28               | 156.52              | 24498.42                | 28.05               | 786.59                  |
| 15     | 2007         | 14.72                               | 18.06                                | 23.45                                | 326.30           | 549.71          | 265.98           | 345.23          | 423.52          | -29.21            | 853.25                | -72.62              | 5273.14                 | -25.01              | 625.39                  |
| 16     | 2008         | 15.75                               | 43.14                                | 24.56                                | 1860.78          | 603.34          | 679.37           | 386.85          | 1059.57         | -28.19            | 794.42                | -47.54              | 2260.39                 | -23.89              | 570.76                  |
| 17     | 2009         | 14.61                               | 44.57                                | 14.90                                | 1986.41          | 221.87          | 651.16           | 217.62          | 663.87          | -29.32            | 859.94                | -46.11              | 2126.24                 | -33.56              | 1126.17                 |
|        | <b>Total</b> | <b>746.89</b>                       | <b>1541.57</b>                       | <b>823.71</b>                        | <b>475399.35</b> | <b>79135.34</b> | <b>237850.84</b> | <b>27465.91</b> | <b>62435.23</b> | <b>0.00</b>       | <b>90123.73</b>       | <b>0.00</b>         | <b>335609.78</b>        | <b>0.00</b>         | <b>39223.38</b>         |
| n = 17 | <b>Mean</b>  | <b>43.93</b>                        | <b>90.68</b>                         | <b>48.45</b>                         | $x_1^2$          | $x_2^2$         | $yx_1$           | $yx_2$          | $x_1x_2$        | $y_1-y_{\bar{y}}$ | $(y_1-y_{\bar{y}})^2$ | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $746.89 = 17.00 a + 1541.57 b + 823.71 c$

or  $43.93 = a + 90.68 b + 48.45 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$237850.84 = 90.68 a + 475399.35 b + 62435.23 c$

$2622.96 = a + 5242.59 b + 688.52 c$  Eq-2

or  $2579.03 = 5151.91 b + 640.07 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$27465.91 = 823.71 a + 62435.23 b + 79135.34 c$

$33.34 = a + 75.80 b + 96.07 c$  Eq-4

$2622.96 = a + 5242.59 b + 688.52 c$  Eq-2

or  $2589.62 = 5166.79 b + 592.45 c$  Eq-5(Eq2-Eq4)

$2582.16 = 5151.91 b + 590.74 c$

$2579.03 = 5151.91 b + 640.07 c$  (Eq-3)

or  $3.13 = -49.32 c$

or  $c = -0.0635$

$b = 0.5085$

$a = 0.9015$

$y = 0.9015 + 0.5085 x_1 - 0.0635 x_2$

$$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.9782$$

$$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = -0.1467$$

$$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = -0.1069$$

$$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.9787$$

$$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 75.05$$

$$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 144.83$$

$$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 49.51$$

**ANNEXURE -V/39**

**WEEKLY CORRELATION EQUATION FOR 39<sup>th</sup> WEEK (24 SEP TO 30 SEP) FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 39 <sup>th</sup> Week Runoff in MCM | 39 <sup>th</sup> Week Rainfall in mm | 38 <sup>th</sup> Week Rainfall in mm | $x_1^2$          | $x_2^2$          | $yx_1$          | $yx_2$          | $x_1x_2$        | $y-y_{\bar{y}}$   | $(y-y_{\bar{y}})^2$   | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |
|--------|--------------|-------------------------------------|--------------------------------------|--------------------------------------|------------------|------------------|-----------------|-----------------|-----------------|-------------------|-----------------------|---------------------|-------------------------|---------------------|-------------------------|
|        |              | y                                   | $x_1$                                | $x_2$                                |                  |                  |                 |                 |                 |                   |                       |                     |                         |                     |                         |
| 1      | 1993         | 42.50                               | 130.67                               | 2.85                                 | 17075.41         | 8.14             | 5553.87         | 121.26          | 372.80          | 5.61              | 31.50                 | 51.04               | 2605.01                 | -53.08              | 2817.87                 |
| 2      | 1994         | 5.46                                | 0.00                                 | 28.19                                | 0.00             | 794.75           | 0.00            | 154.01          | 0.00            | -31.43            | 987.65                | -79.63              | 6341.52                 | -27.75              | 769.80                  |
| 3      | 1996         | 22.23                               | 17.96                                | 6.14                                 | 322.71           | 37.67            | 399.25          | 136.41          | 110.26          | -14.66            | 215.05                | -61.67              | 3803.14                 | -49.80              | 2479.91                 |
| 4      | 1997         | 14.64                               | 37.04                                | 84.52                                | 1372.20          | 7143.58          | 542.26          | 1237.24         | 3130.88         | -22.25            | 495.12                | -42.59              | 1813.95                 | 28.58               | 817.00                  |
| 5      | 1998         | 17.82                               | 46.40                                | 0.00                                 | 2152.96          | 0.00             | 826.82          | 0.00            | 0.00            | -19.07            | 363.68                | -33.23              | 1104.48                 | -55.94              | 3128.89                 |
| 6      | 2001         | 5.95                                | 3.65                                 | 156.84                               | 13.31            | 24600.16         | 21.69           | 932.63          | 572.16          | -30.94            | 957.51                | -75.99              | 5773.83                 | 100.91              | 10182.40                |
| 7      | 2002         | 46.26                               | 174.51                               | 77.16                                | 30452.88         | 5954.18          | 8071.98         | 3569.25         | 13465.58        | 9.37              | 87.72                 | 94.87               | 9001.05                 | 21.23               | 450.58                  |
| 8      | 2003         | 32.61                               | 72.13                                | 8.10                                 | 5202.98          | 65.54            | 2351.98         | 263.97          | 583.94          | -4.28             | 18.34                 | -7.50               | 56.28                   | -47.84              | 2288.76                 |
| 9      | 2005         | 12.39                               | 0.00                                 | 10.40                                | 0.00             | 108.16           | 0.00            | 128.88          | 0.00            | -24.50            | 600.13                | -79.63              | 6341.52                 | -45.54              | 2073.57                 |
| 10     | 2006         | 144.71                              | 208.50                               | 247.20                               | 43472.25         | 61107.84         | 30171.52        | 35771.70        | 51541.20        | 107.82            | 11624.65              | 128.87              | 16606.53                | 191.26              | 36581.72                |
| 11     | 2007         | 100.31                              | 291.15                               | 18.06                                | 84765.71         | 326.30           | 29203.44        | 1811.91         | 5259.23         | 63.42             | 4021.52               | 211.51              | 44737.26                | -37.87              | 1434.33                 |
| 12     | 2008         | 23.70                               | 31.97                                | 43.14                                | 1022.19          | 1860.78          | 757.70          | 1022.30         | 1379.15         | -13.19            | 173.99                | -47.66              | 2271.67                 | -12.80              | 163.83                  |
| 13     | 2009         | 11.01                               | 21.25                                | 44.57                                | 451.69           | 1986.41          | 233.93          | 490.57          | 947.23          | -25.88            | 669.92                | -58.38              | 3408.30                 | -11.37              | 129.22                  |
|        | <b>Total</b> | <b>479.57</b>                       | <b>1035.24</b>                       | <b>727.17</b>                        | <b>186304.29</b> | <b>103993.51</b> | <b>78134.45</b> | <b>45640.13</b> | <b>77362.44</b> | <b>0.00</b>       | <b>20246.81</b>       | <b>0.00</b>         | <b>103864.53</b>        | <b>0.00</b>         | <b>63317.88</b>         |
| n = 13 | <b>Mean</b>  | <b>36.89</b>                        | <b>79.63</b>                         | <b>55.94</b>                         | $x_1^2$          | $x_2^2$          | $yx_1$          | $yx_2$          | $x_1x_2$        | $y_1-y_{\bar{y}}$ | $(y_1-y_{\bar{y}})^2$ | $x_1-x_{\bar{x}_1}$ | $(x_1-x_{\bar{x}_1})^2$ | $x_2-x_{\bar{x}_2}$ | $(x_2-x_{\bar{x}_2})^2$ |



Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

$$\text{or } 479.57 = 13.00 a + 1035.24 b + 727.17 c$$

$$\text{or } 36.89 = a + 79.63 b + 55.94 c \quad \text{Eq-1}$$

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$$78134.45 = 79.63 a + 186304.29 b + 77362.44 c$$

$$981.17 = a + 2339.52 b + 971.48 c \quad \text{Eq-2}$$

$$\text{or } 944.28 = 2259.88 b + 915.54 c \quad \text{Eq-3(Eq2-Eq1)}$$

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$$45640.13 = 727.17 a + 77362.44 b + 103993.51 c$$

$$62.76 = a + 106.39 b + 143.01 c \quad \text{Eq-4}$$

$$981.17 = a + 2339.52 b + 971.48 c \quad \text{Eq-2}$$

$$\text{or } 918.41 = 2233.13 b + 828.47 c \quad \text{Eq-5(Eq-2-Eq-4)}$$

$$929.41 = 2259.88 b + 838.39 c$$

$$944.28 = 2259.88 b + 915.54 c \quad \text{(Eq-3)}$$

$$\text{or } -14.87 = -77.15 c$$

$$\text{or } c = 0.1928$$

$$b = 0.3398$$

$$a = -0.9482$$

$$y = -0.9482 + 0.3398 x_1 + 0.1928 x_2$$

$$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.8711$$

$$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.5255$$

$$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.2399$$

$$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.9085$$

$$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 41.08$$

$$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 93.03$$

$$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 72.64$$

**ANNEXURE -V/40**

**WEEKLY CORRELATION EQUATION FOR 40<sup>th</sup> WEEK (01 OCT TO 07 OCT) FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 40 <sup>th</sup> Week Runoff in MCM | 40 <sup>th</sup> Week Rainfall in mm | 39 <sup>th</sup> Week Rainfall in mm | $x_1^2$         | $x_2^2$          | $yx_1$          | $yx_2$          | $x_1x_2$        | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|--------------------------------------|--------------------------------------|-----------------|------------------|-----------------|-----------------|-----------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                                | $x_2$                                |                 |                  |                 |                 |                 |                  |                      |                  |                      |                  |                      |
| 1      | 1993         | 19.77                               | 19.47                                | 130.67                               | 379.18          | 17075.41         | 384.98          | 2583.44         | 2544.53         | -6.70            | 44.89                | -8.20            | 67.30                | 29.79            | 887.57               |
| 2      | 1994         | 17.29                               | 44.18                                | 0.00                                 | 1951.43         | 0.00             | 763.69          | 0.00            | 0.00            | -9.18            | 84.32                | 16.50            | 272.22               | -100.88          | 10176.95             |
| 3      | 1995         | 10.89                               | 0.00                                 | 335.47                               | 0.00            | 112542.13        | 0.00            | 3654.41         | 0.00            | -15.58           | 242.65               | -27.68           | 765.96               | 234.59           | 55033.47             |
| 4      | 1996         | 12.11                               | 28.69                                | 17.96                                | 823.26          | 322.71           | 347.50          | 217.57          | 515.43          | -14.36           | 206.20               | 1.02             | 1.03                 | -82.92           | 6875.19              |
| 5      | 1997         | 9.74                                | 0.81                                 | 37.04                                | 0.66            | 1372.20          | 7.90            | 360.86          | 30.03           | -16.73           | 279.86               | -26.87           | 721.75               | -63.84           | 4075.24              |
| 6      | 1999         | 23.20                               | 38.50                                | 144.00                               | 1482.25         | 20736.00         | 893.13          | 3340.54         | 5544.00         | -3.27            | 10.71                | 10.82            | 117.16               | 43.12            | 1859.26              |
| 7      | 2000         | 8.25                                | 6.08                                 | 44.90                                | 36.97           | 2016.23          | 50.14           | 370.33          | 273.00          | -18.22           | 332.08               | -21.60           | 466.39               | -55.98           | 3133.59              |
| 8      | 2001         | 166.64                              | 122.31                               | 3.65                                 | 14960.61        | 13.31            | 20382.93        | 607.91          | 446.19          | 140.17           | 19648.82             | 94.64            | 8956.27              | -97.23           | 9454.24              |
| 9      | 2002         | 17.84                               | 9.52                                 | 174.51                               | 90.64           | 30452.88         | 169.86          | 3113.43         | 1661.39         | -8.63            | 74.47                | -18.16           | 329.62               | 73.63            | 5420.89              |
| 10     | 2003         | 30.07                               | 31.27                                | 72.13                                | 978.06          | 5202.98          | 940.50          | 2169.21         | 2255.84         | 3.60             | 12.98                | 3.60             | 12.94                | -28.75           | 826.52               |
| 11     | 2005         | 12.71                               | 0.00                                 | 0.00                                 | 0.00            | 0.00             | 0.00            | 0.00            | 0.00            | -13.76           | 189.32               | -27.68           | 765.96               | -100.88          | 10176.95             |
| 12     | 2006         | 7.97                                | 0.00                                 | 208.50                               | 0.00            | 43472.25         | 0.00            | 1662.53         | 0.00            | -18.50           | 342.13               | -27.68           | 765.96               | 107.62           | 11581.88             |
| 13     | 2007         | 19.90                               | 50.64                                | 291.15                               | 2564.00         | 84765.71         | 1007.58         | 5793.37         | 14742.42        | -6.57            | 43.19                | 22.96            | 527.16               | 190.26           | 36200.64             |
| 14     | 2008         | 17.46                               | 13.28                                | 31.97                                | 176.33          | 1022.19          | 231.80          | 558.12          | 424.55          | -9.01            | 81.25                | -14.40           | 207.28               | -68.91           | 4748.48              |
| 15     | 2009         | 23.21                               | 50.39                                | 21.25                                | 2538.78         | 451.69           | 1169.49         | 493.29          | 1070.86         | -3.26            | 10.63                | 22.71            | 515.76               | -79.63           | 6340.60              |
|        | <b>Total</b> | <b>397.06</b>                       | <b>415.14</b>                        | <b>1513.21</b>                       | <b>25982.15</b> | <b>319445.69</b> | <b>26349.49</b> | <b>24925.01</b> | <b>29508.24</b> | <b>0.00</b>      | <b>21603.51</b>      | <b>0.00</b>      | <b>14492.76</b>      | <b>0.00</b>      | <b>166791.45</b>     |
| n = 15 | <b>Mean</b>  | <b>26.47</b>                        | <b>27.68</b>                         | <b>100.88</b>                        | $x_1^2$         | $x_2^2$          | $yx_1$          | $yx_2$          | $x_1x_2$        | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $397.06 = 15.00 a + 415.14 b + 1513.21 c$

or  $26.47 = a + 27.68 b + 100.88 c$

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$26349.49 = 27.68 a + 25982.15 b + 29508.24 c$

$952.07 = a + 938.80 b + 1066.20 c$

or  $925.60 = 911.12 b + 965.32 c$

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$24925.01 = 1513.21 a + 29508.24 b + 319445.69 c$

$16.47 = a + 19.50 b + 211.10 c$

$952.07 = a + 938.80 b + 1066.20 c$

or  $935.60 = 919.30 b + 855.10 c$

$927.28 = 911.12 b + 847.50 c$

$925.60 = 911.12 b + 965.32 c$

or  $1.68 = -117.83 c$

or  $c = -0.0142$

$b = 1.0310$

$a = -0.6258$

$y = -0.6258 + 1.031 x_1 - 0.0142 x_2$

Eq-1

Eq-2

Eq-3(Eq2-Eq1)

Eq-4

Eq-2

Eq-5(Eq-2-Eq-4)

(Eq-3)

$$\sigma_y = \sqrt{\sum (y - \bar{y})^2 / (n-1)} = 39.28$$

$$\sigma_{x_1} = \sqrt{\sum (x_1 - \bar{x}_1)^2 / (n-1)} = 32.17$$

$$\sigma_{x_2} = \sqrt{\sum (x_2 - \bar{x}_2)^2 / (n-1)} = 109.15$$

$$R_{yx_1} = \frac{\sum (yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.8681$$

$$R_{yx_2} = \frac{\sum (yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = -0.2521$$

$$R_{x_1x_2} = \frac{\sum (x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = -0.2516$$

$$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.8771$$

**ANNEXURE -V/41**

**WEEKLY CORRELATION EQUATION FOR 41<sup>st</sup> WEEK (08 OCT TO 14 OCT) FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 41 <sup>st</sup> Week Runoff in MCM | 41 <sup>st</sup> Week Rainfall in mm | 40 <sup>th</sup> Week Rainfall in mm | $x_1^2$         | $x_2^2$         | $yx_1$          | $yx_2$          | $x_1x_2$        | $y-y\bar{y}$     | $(y-y\bar{y})^2$     | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |
|--------|--------------|-------------------------------------|--------------------------------------|--------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|
|        |              | y                                   | $x_1$                                | $x_2$                                |                 |                 |                 |                 |                 |                  |                      |                  |                      |                  |                      |
| 1      | 1993         | 8.67                                | 18.06                                | 19.47                                | 326.15          | 379.18          | 156.52          | 168.77          | 351.66          | -10.38           | 107.74               | -5.40            | 29.20                | -20.42           | 416.84               |
| 2      | 1994         | 35.05                               | 85.83                                | 44.18                                | 7366.55         | 1951.43         | 3008.42         | 1548.40         | 3791.48         | 16.00            | 256.15               | 62.37            | 3889.47              | 4.29             | 18.37                |
| 3      | 1995         | 6.88                                | 0.23                                 | 0.00                                 | 0.05            | 0.00            | 1.59            | 0.00            | 0.00            | -12.17           | 148.14               | -23.23           | 539.70               | -39.89           | 1591.14              |
| 4      | 1996         | 9.61                                | 0.00                                 | 28.69                                | 0.00            | 823.26          | 0.00            | 275.71          | 0.00            | -9.44            | 89.07                | -23.46           | 550.51               | -11.20           | 125.36               |
| 5      | 1997         | 12.78                               | 7.67                                 | 0.81                                 | 58.86           | 0.66            | 98.05           | 10.36           | 6.22            | -6.27            | 39.28                | -15.79           | 249.35               | -39.08           | 1527.13              |
| 6      | 1998         | 15.89                               | 32.72                                | 95.98                                | 1070.28         | 9211.22         | 519.77          | 1524.82         | 3139.84         | -3.16            | 9.98                 | 9.25             | 85.60                | 56.09            | 3145.64              |
| 7      | 1999         | 6.92                                | 0.00                                 | 38.50                                | 0.00            | 1482.25         | 0.00            | 266.61          | 0.00            | -12.12           | 146.94               | -23.46           | 550.51               | -1.39            | 1.93                 |
| 8      | 2000         | 3.23                                | 0.00                                 | 6.08                                 | 0.00            | 36.97           | 0.00            | 19.66           | 0.00            | -15.81           | 250.05               | -23.46           | 550.51               | -33.81           | 1143.06              |
| 9      | 2001         | 13.24                               | 0.00                                 | 122.31                               | 0.00            | 14960.61        | 0.00            | 1619.25         | 0.00            | -5.81            | 33.74                | -23.46           | 550.51               | 82.42            | 6793.79              |
| 10     | 2002         | 14.09                               | 4.92                                 | 9.52                                 | 24.22           | 90.64           | 69.37           | 134.18          | 46.86           | -4.95            | 24.53                | -18.54           | 343.78               | -30.37           | 922.25               |
| 11     | 2003         | 56.58                               | 110.54                               | 31.27                                | 12218.78        | 978.06          | 6253.96         | 1769.39         | 3456.97         | 37.53            | 1408.53              | 87.08            | 7582.16              | -8.62            | 74.22                |
| 12     | 2004         | 64.15                               | 66.00                                | 167.00                               | 4356.00         | 27889.00        | 4233.93         | 10713.13        | 11022.00        | 45.10            | 2034.34              | 42.54            | 1809.40              | 127.11           | 16157.18             |
| 13     | 2005         | 15.19                               | 5.90                                 | 0.00                                 | 34.81           | 0.00            | 89.61           | 0.00            | 0.00            | -3.86            | 14.89                | -17.56           | 308.46               | -39.89           | 1591.14              |
| 14     | 2006         | 8.87                                | 0.00                                 | 0.00                                 | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | -10.18           | 103.63               | -23.46           | 550.51               | -39.89           | 1591.14              |
| 15     | 2007         | 11.23                               | 5.40                                 | 50.64                                | 29.16           | 2564.00         | 60.62           | 568.46          | 273.42          | -7.82            | 61.16                | -18.06           | 326.28               | 10.75            | 115.49               |
| 16     | 2008         | 12.87                               | 5.00                                 | 13.28                                | 25.00           | 176.33          | 64.34           | 170.88          | 66.39           | -6.18            | 38.17                | -18.46           | 340.88               | -26.61           | 708.10               |
| 17     | 2009         | 28.56                               | 56.60                                | 50.39                                | 3204.01         | 2538.78         | 1616.42         | 1438.87         | 2852.07         | 9.51             | 90.44                | 33.14            | 1098.32              | 10.50            | 110.19               |
|        | <b>Total</b> | <b>323.80</b>                       | <b>398.87</b>                        | <b>678.11</b>                        | <b>28713.87</b> | <b>63082.37</b> | <b>16172.61</b> | <b>20228.48</b> | <b>25006.91</b> | <b>0.00</b>      | <b>4856.77</b>       | <b>0.00</b>      | <b>19355.15</b>      | <b>0.00</b>      | <b>36032.98</b>      |
| n = 17 | <b>Mean</b>  | <b>19.05</b>                        | <b>23.46</b>                         | <b>39.89</b>                         | $x_1^2$         | $x_2^2$         | $yx_1$          | $yx_2$          | $x_1x_2$        | $y_1-y\bar{y}_1$ | $(y_1-y\bar{y}_1)^2$ | $x_1-x\bar{x}_1$ | $(x_1-x\bar{x}_1)^2$ | $x_2-x\bar{x}_2$ | $(x_2-x\bar{x}_2)^2$ |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

$$\text{or } 323.80 = 17.00 a + 398.87 b + 678.11 c$$

$$\text{or } 19.05 = a + 23.46 b + 39.89 c$$

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$$16172.61 = 23.46 a + 28713.87 b + 25006.91 c$$

$$689.28 = a + 1223.79 b + 1065.80 c$$

$$\text{or } 670.23 = 1200.33 b + 1025.91 c$$

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$$20228.48 = 678.11 a + 25006.91 b + 63082.37 c$$

$$29.83 = a + 36.88 b + 93.03 c$$

$$689.28 = a + 1223.79 b + 1065.80 c$$

$$\text{or } 659.45 = 1186.92 b + 972.78 c$$

$$666.90 = 1200.33 b + 983.77 c$$

$$670.23 = 1200.33 b + 1025.91 c$$

$$\text{or } -3.33 = -42.14 c$$

$$\text{or } c = 0.0790$$

$$b = 0.4908$$

$$a = 4.3780$$

$$y = 4.378 + 0.4908 x_1 + 0.079 x_2$$

Eq-1

Eq-2

Eq-3(Eq2-Eq1)

Eq-4

Eq-2

Eq-5(Eq-2-Eq-4)

(Eq-3)

$$\sigma_y = \sqrt{\sum (y - \bar{y})^2 / (n-1)} = 17.42$$

$$\sigma_{x_1} = \sqrt{\sum (x_1 - \bar{x}_1)^2 / (n-1)} = 34.78$$

$$\sigma_{x_2} = \sqrt{\sum (x_2 - \bar{x}_2)^2 / (n-1)} = 47.46$$

$$R_{yx_1} = \frac{\sum (yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.8845$$

$$R_{yx_2} = \frac{\sum (yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = 0.5528$$

$$R_{x_1x_2} = \frac{\sum (x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = 0.3444$$

$$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.9213$$

**ANNEXURE -V/42**

**WEEKLY CORRELATION EQUATION FOR 42<sup>nd</sup> WEEK (15 OCT TO 21 OCT) FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE - II**

| SL No. | Year         | 42 <sup>nd</sup> Week Runoff in MCM | 42 <sup>nd</sup> Week Rainfall in mm | 41 <sup>st</sup> Week Rainfall in mm | $x_1^2$         | $x_2^2$         | $yx_1$          | $yx_2$         | $x_1x_2$       | $y-y$       | $(y-y)^2$      | $x_1-x_1$   | $(x_1-x_1)^2$   | $x_2-x_2$   | $(x_2-x_2)^2$   |
|--------|--------------|-------------------------------------|--------------------------------------|--------------------------------------|-----------------|-----------------|-----------------|----------------|----------------|-------------|----------------|-------------|-----------------|-------------|-----------------|
|        |              | y                                   | $x_1$                                | $x_2$                                |                 |                 |                 |                |                |             |                |             |                 |             |                 |
| 1      | 1993         | 11.03                               | 3.62                                 | 18.06                                | 13.10           | 326.15          | 39.91           | 199.18         | 65.36          | -6.43       | 41.35          | -14.83      | 219.79          | -5.40       | 29.20           |
| 2      | 1994         | 3.72                                | 0.00                                 | 85.83                                | 0.00            | 7366.55         | 0.00            | 319.65         | 0.00           | -13.73      | 188.64         | -18.44      | 340.19          | 62.37       | 3889.47         |
| 3      | 1995         | 4.90                                | 30.07                                | 0.23                                 | 904.18          | 0.05            | 147.41          | 1.14           | 6.96           | -12.56      | 157.67         | 11.63       | 135.15          | -23.23      | 539.70          |
| 4      | 1996         | 10.41                               | 0.00                                 | 0.00                                 | 0.00            | 0.00            | 0.00            | 0.00           | 0.00           | -7.04       | 49.62          | -18.44      | 340.19          | -23.46      | 550.51          |
| 5      | 1997         | 11.06                               | 0.00                                 | 7.67                                 | 0.00            | 58.86           | 0.00            | 84.86          | 0.00           | -6.40       | 40.93          | -18.44      | 340.19          | -15.79      | 249.35          |
| 6      | 1998         | 26.40                               | 48.84                                | 32.72                                | 2385.13         | 1070.28         | 1289.47         | 863.78         | 1597.73        | 8.94        | 80.00          | 30.39       | 923.76          | 9.25        | 85.60           |
| 7      | 1999         | 101.57                              | 157.00                               | 0.00                                 | 24649.00        | 0.00            | 15947.06        | 0.00           | 0.00           | 84.11       | 7075.28        | 138.56      | 19197.67        | -23.46      | 550.51          |
| 8      | 2000         | 9.18                                | 0.00                                 | 0.00                                 | 0.00            | 0.00            | 0.00            | 0.00           | 0.00           | -8.28       | 68.52          | -18.44      | 340.19          | -23.46      | 550.51          |
| 9      | 2001         | 16.74                               | 10.09                                | 0.00                                 | 101.78          | 0.00            | 168.88          | 0.00           | 0.00           | -0.72       | 0.52           | -8.36       | 69.81           | -23.46      | 550.51          |
| 10     | 2002         | 16.59                               | 11.64                                | 4.92                                 | 135.46          | 24.22           | 193.13          | 81.67          | 57.28          | -0.86       | 0.75           | -6.81       | 46.32           | -18.54      | 343.78          |
| 11     | 2003         | 11.35                               | 3.77                                 | 110.54                               | 14.18           | 12218.78        | 42.75           | 1254.99        | 416.24         | -6.11       | 37.28          | -14.68      | 215.47          | 87.08       | 7582.16         |
| 12     | 2004         | 15.39                               | 0.00                                 | 66.00                                | 0.00            | 4356.00         | 0.00            | 1015.74        | 0.00           | -2.07       | 4.28           | -18.44      | 340.19          | 42.54       | 1809.40         |
| 13     | 2005         | 6.20                                | 28.80                                | 5.90                                 | 829.44          | 34.81           | 178.64          | 36.60          | 169.92         | -11.26      | 126.70         | 10.36       | 107.24          | -17.56      | 308.46          |
| 14     | 2006         | 7.02                                | 4.00                                 | 0.00                                 | 16.00           | 0.00            | 28.07           | 0.00           | 0.00           | -10.44      | 109.01         | -14.44      | 208.64          | -23.46      | 550.51          |
| 15     | 2007         | 18.16                               | 15.73                                | 5.40                                 | 247.57          | 29.16           | 285.80          | 98.08          | 84.96          | 0.71        | 0.50           | -2.71       | 7.34            | -18.06      | 326.28          |
| 16     | 2008         | 14.05                               | 0.00                                 | 5.00                                 | 0.00            | 25.00           | 0.00            | 70.23          | 0.00           | -3.41       | 11.65          | -18.44      | 340.19          | -18.46      | 340.88          |
| 17     | 2009         | 13.01                               | 0.00                                 | 56.60                                | 0.00            | 3204.01         | 0.00            | 736.21         | 0.00           | -4.45       | 19.83          | -18.44      | 340.19          | 33.14       | 1098.32         |
|        | <b>Total</b> | <b>296.80</b>                       | <b>313.55</b>                        | <b>398.87</b>                        | <b>29295.84</b> | <b>28713.87</b> | <b>18321.14</b> | <b>4762.12</b> | <b>2398.46</b> | <b>0.00</b> | <b>8012.52</b> | <b>0.00</b> | <b>23512.55</b> | <b>0.00</b> | <b>19355.15</b> |
| n = 17 | <b>Mean</b>  | <b>17.46</b>                        | <b>18.44</b>                         | <b>23.46</b>                         | $x_1^2$         | $x_2^2$         | $yx_1$          | $yx_2$         | $x_1x_2$       | $y_1-y_1$   | $(y_1-y_1)^2$  | $x_1-x_1$   | $(x_1-x_1)^2$   | $x_2-x_2$   | $(x_2-x_2)^2$   |

Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

or  $296.80 = 17.00 a + 313.55 b + 398.87 c$

or  $17.46 = a + 18.44 b + 23.46 c$  Eq-1

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$18321.14 = 18.44 a + 29295.84 b + 2398.46 c$

$993.32 = a + 1588.34 b + 130.04 c$  Eq-2

or  $975.86 = 1569.89 b + 106.57 c$  Eq-3(Eq2-Eq1)

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$4762.12 = 398.87 a + 2398.46 b + 28713.87 c$

$11.94 = a + 6.01 b + 71.99 c$  Eq-4

$993.32 = a + 1588.34 b + 130.04 c$  Eq-2

or  $981.38 = 1582.32 b + 58.05 c$  Eq-5(Eq-2-Eq-4)

$973.67 = 1569.89 b + 57.59 c$

$975.86 = 1569.89 b + 106.57 c$  (Eq-3)

or  $-2.19 = -48.98 c$

or  $c = 0.0447$

$b = 0.6186$

$a = 5.0006$

$y = 5.0006 + 0.6186 x_1 + 0.0447 x_2$

$R_{yx_1} = \frac{\sum(yx_1) - n(\bar{y}\bar{x}_1)}{(n-1)\sigma_y\sigma_{x_1}} = 0.9360$

$R_{yx_2} = \frac{\sum(yx_2) - n(\bar{y}\bar{x}_2)}{(n-1)\sigma_y\sigma_{x_2}} = -0.1768$

$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1\bar{x}_2)}{(n-1)\sigma_{x_1}\sigma_{x_2}} = -0.2324$

$R_{yx_1x_2} = \sqrt{(1-(1-(R_{yx_1}^2)) * (1-(R_{yx_2}^2)))} = 0.9380$

$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 22.38$

$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 38.33$

$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 34.78$

**ANNEXURE -V/43**

**WEEKLY CORRELATION EQUATION FOR 43<sup>rd</sup> WEEK (22 OCT TO 28 OCT) FOR CHANDAN DAM BASED ON OBSERVED RUNOFF IN ANNEXURE -II**

| SL No. | Year         | 43 <sup>rd</sup> Week Runoff in MCM | 43 <sup>rd</sup> Week Rainfall in mm | 42 <sup>nd</sup> Week Rainfall in mm | $x_1^2$        | $x_2^2$        | $yx_1$         | $yx_2$        | $x_1x_2$      | $y-y_1$     | $(y-y_1)^2$   | $x_1-x_1$   | $(x_1-x_1)^2$  | $x_2-x_2$   | $(x_2-x_2)^2$  |
|--------|--------------|-------------------------------------|--------------------------------------|--------------------------------------|----------------|----------------|----------------|---------------|---------------|-------------|---------------|-------------|----------------|-------------|----------------|
|        |              | y                                   | $x_1$                                | $x_2$                                |                |                |                |               |               |             |               |             |                |             |                |
| 1      | 1993         | 2.22                                | 0.00                                 | 3.62                                 | 0.00           | 13.10          | 0.00           | 8.04          | 0.00          | -7.14       | 51.00         | -8.37       | 70.03          | -4.17       | 17.39          |
| 2      | 1994         | 6.86                                | 0.00                                 | 0.00                                 | 0.00           | 0.00           | 0.00           | 0.00          | 0.00          | -2.50       | 6.24          | -8.37       | 70.03          | -7.79       | 60.67          |
| 3      | 1995         | 8.67                                | 5.48                                 | 30.07                                | 30.08          | 904.18         | 47.52          | 260.57        | 164.91        | -0.70       | 0.49          | -2.88       | 8.32           | 22.28       | 496.41         |
| 4      | 1997         | 11.81                               | 19.01                                | 0.00                                 | 361.30         | 0.00           | 224.45         | 0.00          | 0.00          | 2.45        | 5.98          | 10.64       | 113.20         | -7.79       | 60.67          |
| 5      | 2000         | 10.48                               | 0.69                                 | 0.00                                 | 0.48           | 0.00           | 7.28           | 0.00          | 0.00          | 1.12        | 1.25          | -7.67       | 58.88          | -7.79       | 60.67          |
| 6      | 2002         | 10.36                               | 0.00                                 | 11.64                                | 0.00           | 135.46         | 0.00           | 120.63        | 0.00          | 1.00        | 1.00          | -8.37       | 70.03          | 3.85        | 14.82          |
| 7      | 2003         | 23.37                               | 40.50                                | 3.77                                 | 1640.04        | 14.18          | 946.29         | 87.99         | 152.50        | 14.00       | 196.12        | 32.13       | 1032.27        | -4.02       | 16.19          |
| 8      | 2004         | 3.88                                | 0.00                                 | 0.00                                 | 0.00           | 0.00           | 0.00           | 0.00          | 0.00          | -5.48       | 30.05         | -8.37       | 70.03          | -7.79       | 60.67          |
| 9      | 2005         | 11.22                               | 18.00                                | 28.80                                | 324.00         | 829.44         | 201.88         | 323.01        | 518.40        | 1.85        | 3.43          | 9.63        | 92.77          | 21.01       | 441.45         |
| 10     | 2008         | 4.76                                | 0.00                                 | 0.00                                 | 0.00           | 0.00           | 0.00           | 0.00          | 0.00          | -4.61       | 21.22         | -8.37       | 70.03          | -7.79       | 60.67          |
|        | <b>Total</b> | <b>93.62</b>                        | <b>83.68</b>                         | <b>77.89</b>                         | <b>2355.91</b> | <b>1896.35</b> | <b>1427.44</b> | <b>800.24</b> | <b>835.80</b> | <b>0.00</b> | <b>316.79</b> | <b>0.00</b> | <b>1655.60</b> | <b>0.00</b> | <b>1289.63</b> |
| n = 10 | <b>Mean</b>  | <b>9.36</b>                         | <b>8.37</b>                          | <b>7.79</b>                          | $x_1^2$        | $x_2^2$        | $yx_1$         | $yx_2$        | $x_1x_2$      | $y_1-y_1$   | $(y_1-y_1)^2$ | $x_1-x_1$   | $(x_1-x_1)^2$  | $x_2-x_2$   | $(x_2-x_2)^2$  |



Regression equation may be given as

$$y = a + bx_1 + cx_2$$

$$\sum y = an + b\sum x_1 + c\sum x_2$$

$$\text{or } 93.62 = 10.00 a + 83.68 b + 77.89 c$$

$$\text{or } 9.36 = a + 8.37 b + 7.79 c \quad \text{Eq-1}$$

$$\sum yx_1 = a\sum x_1 + b\sum x_1^2 + c\sum x_1x_2$$

$$1427.44 = 8.37 a + 2355.91 b + 835.80 c$$

$$170.57 = a + 281.52 b + 99.88 c \quad \text{Eq-2}$$

$$\text{or } 161.21 = 273.15 b + 92.09 c \quad \text{Eq-3(Eq2-Eq1)}$$

$$\sum yx_2 = a\sum x_2 + c\sum x_2^2 + b\sum x_1x_2$$

$$800.24 = 77.89 a + 835.80 b + 1896.35 c$$

$$10.27 = a + 10.73 b + 24.35 c \quad \text{Eq-4}$$

$$170.57 = a + 281.52 b + 99.88 c \quad \text{Eq-2}$$

$$\text{or } 160.30 = 270.79 b + 75.53 c \quad \text{Eq-5(Eq-2-Eq-4)}$$

$$161.70 = 273.15 b + 76.19 c$$

$$161.21 = 273.15 b + 92.09 c \quad \text{(Eq-3)}$$

$$\text{or } 0.49 = -15.90 c$$

$$\text{or } c = -0.0306$$

$$b = 0.6005$$

$$a = 4.5757$$

$$y = 4.5757 + 0.6005 x_1 - 0.0306 x_2$$

$$R_{yx_1} = \frac{\sum(yx_1) - n(y \bar{x}_1)}{(n-1) \sigma_y \sigma_{x_1}} = 0.8892$$

$$R_{yx_2} = \frac{\sum(yx_2) - n(y \bar{x}_2)}{(n-1) \sigma_y \sigma_{x_2}} = 0.1110$$

$$R_{x_1x_2} = \frac{\sum(x_1x_2) - n(\bar{x}_1 \bar{x}_2)}{(n-1) \sigma_{x_1} \sigma_{x_2}} = 0.1259$$

$$R_{yx_1x_2} = \sqrt{(1 - (1 - (R_{yx_1})^2)) * (1 - (R_{yx_2})^2))} = 0.8906$$

$$\sigma_y = \sqrt{\sum(y - \bar{y})^2 / (n-1)} = 5.93$$

$$\sigma_{x_1} = \sqrt{\sum(x_1 - \bar{x}_1)^2 / (n-1)} = 13.56$$

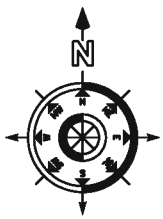
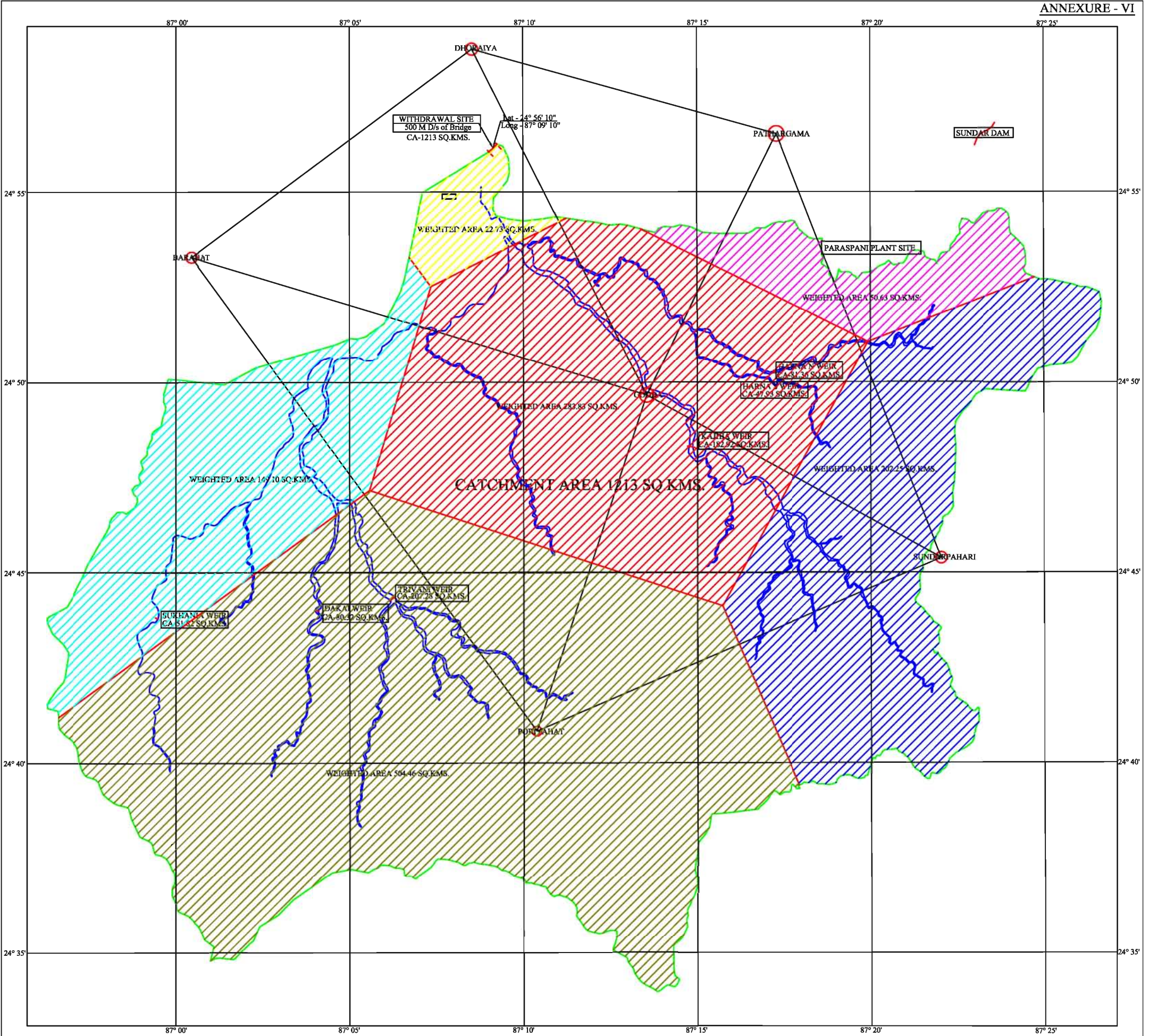
$$\sigma_{x_2} = \sqrt{\sum(x_2 - \bar{x}_2)^2 / (n-1)} = 11.97$$

Annexure - V

SUMMARY OF WEEKLY CORRELATION EQUATIONS (MONSOON) AT  
CHANDAN DAM

| SI No | Week             | Monthly Correlation Equations |       |   |       |                |   |       |                | Correlation factor |
|-------|------------------|-------------------------------|-------|---|-------|----------------|---|-------|----------------|--------------------|
| 1     | 23 <sup>rd</sup> | Y=                            | -0.95 | + | 0.15  | x <sub>1</sub> | + | -0.06 | x <sub>2</sub> | 0.92               |
| 2     | 24 <sup>th</sup> | Y=                            | 0.30  | + | 0.11  | x <sub>1</sub> | + | -0.04 | x <sub>2</sub> | 0.88               |
| 3     | 25 <sup>th</sup> | Y=                            | -9.55 | + | 0.30  | x <sub>1</sub> | + | 0.02  | x <sub>2</sub> | 0.89               |
| 4     | 26 <sup>th</sup> | Y=                            | -1.53 | + | -0.03 | x <sub>1</sub> | + | 0.25  | x <sub>2</sub> | 0.92               |
| 5     | 27 <sup>th</sup> | Y=                            | -1.13 | + | 0.09  | x <sub>1</sub> | + | 0.07  | x <sub>2</sub> | 0.90               |
| 6     | 28 <sup>th</sup> | Y=                            | -1.68 | + | 0.26  | x <sub>1</sub> | + | -0.02 | x <sub>2</sub> | 0.92               |
| 7     | 29 <sup>th</sup> | Y=                            | -1.02 | + | 0.20  | x <sub>1</sub> | + | 0.02  | x <sub>2</sub> | 0.90               |
| 8     | 30 <sup>th</sup> | Y=                            | -2.78 | + | 0.07  | x <sub>1</sub> | + | 0.19  | x <sub>2</sub> | 0.95               |
| 9     | 31 <sup>st</sup> | Y=                            | 4.13  | + | 0.22  | x <sub>1</sub> | + | 0.03  | x <sub>2</sub> | 0.93               |
| 10    | 32 <sup>nd</sup> | Y=                            | 2.17  | + | 0.33  | x <sub>1</sub> | + | 0.00  | x <sub>2</sub> | 0.89               |
| 11    | 33 <sup>rd</sup> | Y=                            | -3.63 | + | 0.54  | x <sub>1</sub> | + | -0.06 | x <sub>2</sub> | 0.90               |
| 12    | 34 <sup>th</sup> | Y=                            | 3.07  | + | 0.22  | x <sub>1</sub> | + | 0.02  | x <sub>2</sub> | 0.88               |
| 13    | 35 <sup>th</sup> | Y=                            | 5.17  | + | 0.33  | x <sub>1</sub> | + | -0.06 | x <sub>2</sub> | 0.90               |
| 14    | 36 <sup>th</sup> | Y=                            | 2.33  | + | 0.41  | x <sub>1</sub> | + | 0.05  | x <sub>2</sub> | 0.92               |
| 15    | 37 <sup>th</sup> | Y=                            | 5.32  | + | 0.10  | x <sub>1</sub> | + | 0.15  | x <sub>2</sub> | 0.89               |
| 16    | 38 <sup>th</sup> | Y=                            | 0.90  | + | 0.51  | x <sub>1</sub> | + | -0.06 | x <sub>2</sub> | 0.98               |
| 17    | 39 <sup>th</sup> | Y=                            | -0.95 | + | 0.34  | x <sub>1</sub> | + | 0.19  | x <sub>2</sub> | 0.91               |
| 18    | 40 <sup>th</sup> | Y=                            | -0.63 | + | 1.03  | x <sub>1</sub> | + | -0.01 | x <sub>2</sub> | 0.88               |
| 19    | 41 <sup>st</sup> | Y=                            | 4.38  | + | 0.49  | x <sub>1</sub> | + | 0.08  | x <sub>2</sub> | 0.92               |
| 20    | 42 <sup>nd</sup> | Y=                            | 5.00  | + | 0.62  | x <sub>1</sub> | + | 0.04  | x <sub>2</sub> | 0.94               |
| 21    | 43 <sup>rd</sup> | Y=                            | 4.58  | + | 0.60  | x <sub>1</sub> | + | -0.03 | x <sub>2</sub> | 0.89               |





NOT TO SCALE

72  $\frac{L}{13}$

72  $\frac{P}{1}$

72  $\frac{P}{5}$

72  $\frac{L}{14}$

72  $\frac{P}{2}$

72  $\frac{P}{6}$

AP(J)L, PARASPANI TPP

INDEX MAP

SHOWING CATCHMENT AREA AT WITHDRAWAL POINT IN CHIR RIVER & THIESSEN POLYGON

PREPARED BY

NANO SYSTEM CONSULTANTS PVT.LTD. RANCHI



ANNEXURE - VII/1

| Station Name | Year | Weekly Rainfall Data in mm for January to December (week nos. 01-26) |      |      |     |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |
|--------------|------|--|------|------|-----|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|
|              |      | 01   | 02   | 03   | 04  | 05   | 06   | 07   | 08   | 09   | 10  | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24    | 25    | 26    |       |
| BARAHAT      | 1992 | 6.0  | 0.0  | 0.0  | 0.0 | 0.0  | 4.3  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 25.3 | 0.0  | 0.0  | 0.0   | 11.5  | 21.5  |       |
| BARAHAT      | 1993 | 0.0  | 37.8 | 0.0  | 0.0 | 4.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 15.4 | 17.8 | 0.0  | 0.0  | 0.0  | 13.6 | 0.0  | 0.0  | 0.0  | 25.6 | 21.2 | 0.0  | 0.0   | 51.6  | 36.0  |       |
| BARAHAT      | 1994 | 0.0  | 0.0  | 8.2  | 0.0 | 11.6 | 4.6  | 0.0  | 16.6 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 29.0 | 0.0  | 29.4 | 45.4 | 47.1  | 29.0  |       |       |
| BARAHAT      | 1995 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.0  | 0.0  | 0.0  | 0.0  | 0.0   | 85.8  | 14.4  |       |
| BARAHAT      | 1996 | 0.0  | 0.0  | 1.8  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 44.6 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 24.2 | 4.8  | 8.2  | 0.0   | 114.8 | 113.2 |       |
| BARAHAT      | 1997 | 0.0  | 0.0  | 12.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 32.0 | 0.0  | 0.0  | 0.0  | 3.0  | 32.0 | 0.0  | 22.5  | 55.6  | 68.0  |       |
| BARAHAT      | 1998 | 3.0  | 0.0  | 2.0  | 2.0 | 0.0  | 0.0  | 14.0 | 2.0  | 0.0  | 2.0 | 11.0 | 14.0 | 55.4 | 4.0  | 2.6  | 4.2  | 0.0  | 18.0 | 2.6  | 0.0  | 8.4  | 6.8  | 0.0  | 12.6  | 10.2  | 19.2  |       |
| BARAHAT      | 1999 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 14.0 | 10.0 | 0.0  | 0.0  | 0.0  | 5.6  | 0.0  | 16.0 | 69.6  | 24.2  | 148.2 |       |
| BARAHAT      | 2000 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 20.5 | 0.0  | 0.0  | 0.0  | 41.0 | 0.0  | 32.5 | 23.5 | 0.0  | 26.0 | 32.5 | 0.0  | 64.5 | 34.5  | 72.6  | 16.0  |       |
| BARAHAT      | 2001 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 7.2  | 0.0  | 0.0  | 9.4  | 0.0  | 5.2  | 8.2  | 16.8 | 0.0  | 73.2 | 45.2 | 52.6  | 225.4 | 59.4  |       |
| BARAHAT      | 2002 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.0  | 2.0  | 0.0 | 0.0  | 0.0  | 0.0  | 11.0 | 0.0  | 8.6  | 7.0  | 13.0 | 4.0  | 7.0  | 21.0 | 34.5 | 55.0 | 35.0  | 100.4 | 30.0  |       |
| BARAHAT      | 2003 | 0.0  | 0.0  | 0.0  | 0.0 | 3.6  | 0.0  | 7.4  | 18.4 | 0.0  | 0.0 | 20.0 | 9.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.4 | 17.2  | 61.2  | 51.3  |       |
| BARAHAT      | 2004 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 12.4 | 0.0  | 0.0  | 0.0  | 22.6 | 0.0  | 13.0 | 27.0  | 279.4 | 0.0   |       |
| BARAHAT      | 2005 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.5   | 4.2   | 0.0   | 147.5 |
| BARAHAT      | 2006 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 184.5 | 0.0   | 38.2  | 38.5  |
| BARAHAT      | 2007 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 13.6 | 58.8 | 0.0  | 17.8 | 0.0 | 7.2  | 0.0  | 0.0  | 0.0  | 1.4  | 11.2 | 0.0  | 0.0  | 27.6 | 6.8  | 0.0  | 1.8  | 17.8 | 40.0  | 8.8   | 30.4  |       |
| BARAHAT      | 2008 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 28.4 | 0.0  | 2.2  | 0.0  | 3.6  | 0.0  | 0.0  | 5.4  | 0.0  | 6.4  | 35.0  | 100.2 | 91.4  |       |
| BARAHAT      | 2009 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 16.1 | 0.0  | 30.4 | 0.0  | 0.0  | 0.0   | 0.0   | 9.0   |       |
| BARAHAT      | 2010 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.0  | 4.0  | 0.0  | 9.0   | 8.0   | 2.0   |       |
| BARAHAT      | 2011 | 0.0  | 0.0  | 2.4  | 0.0 | 0.0  | 0.0  | 8.6  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.2  | 0.0  | 0.0  | 14.6 | 0.0  | 2.8  | 18.6 | 38.4 | 25.2 | 14.4 | 4.2  | 63.6  | 68.0  | 82.2  |       |
| BARAHAT      | 2012 | 19.0   | 13.2 | 7.0  | 0.0 | 0.0  | 0.0  | 15.6 | 0.0  | 0.0  | 0.0 | 3.0  | 0.0  | 26.6 | 10.2 | 16.8 | 0.0  | 0.0  | 1.8  | 10.6 | 0.0  | 8.0  | 0.0  | 0.0  | 0.0   | 48.1  | 4.4   |       |
| BARAHAT      | 2013 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 19.8 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.5  | 9.8  | 0.0  | 0.0  | 0.0  | 0.0  | 29.6 | 40.4 | 38.6  | 29.6  | 75.7  |       |

| Station Name | Year | Weekly Rainfall Data in mm for January to December (week nos.27-52) |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |     |     |     |      |     |      |
|--------------|------|---|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|-----|-----|-----|------|-----|------|
|              |      | 27  | 28    | 29    | 30    | 31   | 32    | 33    | 34    | 35    | 36    | 37    | 38    | 39    | 40    | 41    | 42    | 43   | 44   | 45   | 46   | 47  | 48  | 49  | 50   | 51  | 52   |
| BARAHAT      | 1992 | 33.4  | 188.4 | 50.6  | 24.1  | 72.4 | 86.2  | 16.4  | 25.4  | 3.0   | 1.8   | 0.0   | 0.0   | 116.2 | 13.8  | 4.6   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| BARAHAT      | 1993 | 12.1  | 22.3  | 71.5  | 76.2  | 7.6  | 149.9 | 30.6  | 130.2 | 74.0  | 36.5  | 38.6  | 6.1   | 35.4  | 8.4   | 25.4  | 9.2   | 0.0  | 36.8 | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| BARAHAT      | 1994 | 20.6  | 0.0   | 7.0   | 62.6  | 87.6 | 15.2  | 100.8 | 28.0  | 9.8   | 0.0   | 49.0  | 13.2  | 0.0   | 33.1  | 89.4  | 0.0   | 0.0  | 6.4  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| BARAHAT      | 1995 | 37.0  | 105.8 | 48.0  | 0.0   | 40.0 | 86.0  | 165.2 | 24.4  | 5.0   | 5.2   | 0.0   | 92.6  | 229.0 | 0.0   | 0.0   | 50.0  | 0.0  | 0.0  | 5.5  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 12.8 |
| BARAHAT      | 1996 | 4.0   | 82.8  | 18.2  | 4.8   | 44.7 | 105.6 | 96.6  | 61.2  | 57.6  | 47.2  | 55.0  | 54.0  | 16.0  | 105.6 | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| BARAHAT      | 1997 | 43.0  | 141.0 | 61.6  | 26.2  | 10.6 | 6.2   | 135.2 | 12.0  | 68.2  | 0.0   | 23.4  | 15.4  | 54.6  | 11.0  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 37.0 | 0.0 | 0.0 | 0.0 | 17.0 | 0.0 | 0.0  |
| BARAHAT      | 1998 | 58.0  | 245.4 | 78.6  | 2.6   | 59.0 | 64.6  | 81.8  | 33.0  | 36.0  | 141.4 | 18.0  | 2.6   | 27.0  | 25.0  | 0.0   | 50.2  | 4.6  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| BARAHAT      | 1999 | 32.4  | 107.8 | 40.4  | 55.3  | 8.0  | 32.0  | 119.0 | 98.5  | 142.5 | 0.0   | 159.0 | 30.0  | 144.0 | 38.5  | 0.0   | 157.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| BARAHAT      | 2000 | 0.0   | 62.0  | 188.0 | 88.0  | 16.0 | 36.2  | 37.0  | 0.0   | 131.4 | 14.0  | 0.0   | 627.2 | 63.2  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| BARAHAT      | 2001 | 17.6  | 11.2  | 40.8  | 49.4  | 56.4 | 0.0   | 34.2  | 18.0  | 131.5 | 158.6 | 67.6  | 210.0 | 0.0   | 102.8 | 0.0   | 14.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| BARAHAT      | 2002 | 214.0   | 4.6   | 132.0 | 7.0   | 0.0  | 137.0 | 173.0 | 36.0  | 18.0  | 13.0  | 97.0  | 93.0  | 244.6 | 13.4  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| BARAHAT      | 2003 | 3.2   | 96.8  | 0.0   | 96.0  | 75.6 | 10.4  | 58.7  | 49.0  | 31.1  | 39.0  | 26.3  | 3.0   | 54.5  | 30.0  | 116.3 | 5.3   | 57.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| BARAHAT      | 2004 | 45.4  | 29.0  | 29.6  | 14.3  | 43.7 | 46.4  | 74.0  | 57.0  | 49.0  | 32.0  | 22.6  | 143.2 | 165.0 | 94.9  | 41.1  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| BARAHAT      | 2005 | 139.8   | 126.7 | 260.4 | 42.0  | 14.4 | 6.0   | 9.4   | 10.4  | 0.0   | 1.4   | 8.1   | 10.4  | 0.0   | 0.0   | 5.9   | 28.8  | 18.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| BARAHAT      | 2006 | 32.4  | 283.3 | 10.1  | 45.8  | 65.5 | 178.8 | 106.6 | 15.5  | 23.7  | 68.0  | 17.2  | 224.7 | 134.1 | 4.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| BARAHAT      | 2007 | 68.3  | 41.2  | 386.8 | 224.0 | 47.6 | 36.4  | 155.8 | 16.2  | 18.6  | 60.8  | 13.6  | 27.0  | 226.2 | 11.0  | 6.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| BARAHAT      | 2008 | 166.4   | 75.6  | 71.4  | 17.2  | 6.8  | 58.6  | 51.2  | 16.4  | 35.0  | 0.0   | 31.6  | 118.6 | 0.0   | 59.8  | 16.8  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| BARAHAT      | 2009 | 66.0  | 54.0  | 41.0  | 49.0  | 29.0 | 12.5  | 129.0 | 15.0  | 55.0  | 108.5 | 68.0  | 6.5   | 0.0   | 17.5  | 90.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| BARAHAT      | 2010 | 0.0   | 59.0  | 8.0   | 7.0   | 17.0 | 8.0   | 32.0  | 42.0  | 0.0   | 8.0   | 94.6  | 3.0   | 0.0   | 0.0   | 4.0   | 0.0   | 3.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| BARAHAT      | 2011 | 26.0  | 28.2  | 69.4  | 88.6  | 77.2 | 276.8 | 123.8 | 10.4  | 2.0   | 11.4  | 81.0  | 142.6 | 2.0   | 0.0   | 0.0   | 20.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| BARAHAT      | 2012 | 71.0  | 27.4  | 160.6 | 19.2  | 41.5 | 43.2  | 76.3  | 60.1  | 42.3  | 71.9  | 63.9  | 20.6  | 3.8   | 22.4  | 28.8  | 0.0   | 0.0  | 40.6 | 52.6 | 0.0  | 0.0 | 0.0 | 0.0 | 2.0  | 0.0 | 0.0  |
| BARAHAT      | 2013 | 24.8  | 61.8  | 7.6   | 58.1  | 35.9 | 88.6  | 49.3  | 66.6  | 66.2  | 13.4  | 2.5   | 16.6  | 29.4  | 41.9  | 132.0 | 7.2   | 21.5 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |

| Station Name | Year | Weekly Rainfall Data in mm for January to December (week nos. 01-26) |      |      |     |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |       |      |       |       |
|--------------|------|--|------|------|-----|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|-------|
|              |      | 01   | 02   | 03   | 04  | 05   | 06   | 07   | 08   | 09   | 10  | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23    | 24   | 25    | 26    |
| DHORIYA      | 1992 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 7.5  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 25.3 | 0.0  | 0.0   | 0.0  | 11.5  | 21.5  |
| DHORIYA      | 1993 | 0.0  | 37.8 | 0.0  | 0.0 | 4.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 15.4 | 17.8 | 0.0  | 0.0  | 0.0  | 13.6 | 0.0  | 0.0  | 0.0  | 25.6 | 21.2 | 0.0   | 0.0  | 51.6  | 36.0  |
| DHORIYA      | 1994 | 0.0  | 0.0  | 8.2  | 0.0 | 11.6 | 4.6  | 0.0  | 16.6 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 29.0 | 0.0  | 29.4 | 45.4  | 47.1 | 29.0  |       |
| DHORIYA      | 1995 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.0  | 0.0  | 0.0  | 0.0   | 0.0  | 85.8  | 14.4  |
| DHORIYA      | 1996 | 0.0  | 0.0  | 1.8  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 44.6 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 24.2 | 4.8  | 8.2   | 0.0  | 114.8 | 113.2 |
| DHORIYA      | 1997 | 0.0  | 0.0  | 12.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 32.0 | 0.0  | 0.0  | 0.0  | 3.0  | 32.0 | 0.0   | 22.5 | 55.6  | 68.0  |
| DHORIYA      | 1998 | 3.0  | 0.0  | 2.0  | 2.0 | 0.0  | 0.0  | 14.0 | 2.0  | 0.0  | 2.0 | 11.0 | 14.0 | 55.4 | 4.0  | 2.6  | 4.2  | 0.0  | 18.0 | 2.6  | 0.0  | 8.4  | 6.8  | 0.0   | 12.6 | 10.2  | 19.2  |
| DHORIYA      | 1999 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 14.0 | 10.0 | 0.0  | 0.0  | 0.0  | 5.6  | 0.0  | 16.0  | 69.6 | 24.2  | 148.2 |
| DHORIYA      | 2000 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 20.5 | 0.0  | 0.0  | 0.0  | 41.0 | 0.0  | 32.5 | 23.5 | 0.0  | 26.0 | 32.5 | 0.0  | 64.5  | 34.5 | 72.6  | 16.0  |
| DHORIYA      | 2001 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 7.2  | 0.0  | 0.0  | 9.4  | 0.0  | 5.2  | 8.2  | 16.8 | 0.0  | 73.2 | 45.2  | 52.6 | 225.4 | 59.4  |
| DHORIYA      | 2002 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.0  | 2.0  | 0.0 | 0.0  | 0.0  | 0.0  | 11.0 | 0.0  | 8.6  | 7.0  | 13.0 | 4.0  | 7.0  | 21.0 | 34.5 | 55.0  | 35.0 | 100.4 | 30.0  |
| DHORIYA      | 2003 | 0.0  | 0.0  | 0.0  | 0.0 | 3.6  | 0.0  | 7.4  | 18.4 | 0.0  | 0.0 | 20.0 | 9.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.4  | 17.2 | 61.2  | 51.3  |
| DHORIYA      | 2004 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 12.4 | 0.0  | 0.0  | 0.0  | 22.6 | 0.0  | 13.0  | 27.0 | 279.4 | 0.0   |
| DHORIYA      | 2005 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.5   | 4.2  | 0.0   | 147.5 |
| DHORIYA      | 2006 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 184.5 | 0.0  | 38.2  | 38.5  |
| DHORIYA      | 2007 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 13.6 | 58.8 | 0.0  | 17.8 | 0.0 | 7.2  | 0.0  | 0.0  | 0.0  | 1.4  | 11.2 | 0.0  | 0.0  | 27.6 | 6.8  | 0.0  | 1.8  | 17.8  | 40.0 | 8.8   | 30.4  |
| DHORIYA      | 2008 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.0  | 7.0  | 0.0  | 0.0  | 6.4   | 35.0 | 100.2 | 91.4  |
| DHORIYA      | 2009 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 18.8 | 0.0  | 0.0   | 0.0  | 0.0   | 1.4   |
| DHORIYA      | 2010 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.0  | 4.0  | 0.0   | 9.0  | 8.0   | 2.0   |
| DHORIYA      | 2011 | 0.0  | 0.0  | 2.4  | 0.0 | 0.0  | 0.0  | 8.6  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.2  | 0.0  | 0.0  | 14.6 | 0.0  | 2.8  | 18.6 | 38.4 | 25.2 | 14.4 | 4.2   | 63.6 | 68.0  | 82.2  |
| DHORIYA      | 2012 | 19.0   | 13.2 | 7.0  | 0.0 | 0.0  | 0.0  | 15.6 | 0.0  | 0.0  | 0.0 | 3.0  | 0.0  | 26.6 | 10.2 | 16.8 | 0.0  | 0.0  | 1.8  | 10.6 | 0.0  | 8.0  | 0.0  | 0.0   | 0.0  | 48.1  | 4.4   |
| DHORIYA      | 2013 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 19.8 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.5  | 9.8  | 0.0  | 0.0  | 0.0  | 0.0  | 29.6 | 40.4  | 38.6 | 29.6  | 75.7  |

| Station Name | Year | Weekly Rainfall Data in mm for January to December (week nos.27-52) |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |     |     |     |      |     |      |
|--------------|------|---|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|-----|-----|-----|------|-----|------|
|              |      | 27  | 28    | 29    | 30    | 31   | 32    | 33    | 34    | 35    | 36    | 37    | 38    | 39    | 40    | 41    | 42    | 43   | 44   | 45   | 46   | 47  | 48  | 49  | 50   | 51  | 52   |
| DHORIYA      | 1992 | 37.0  | 92.5  | 50.5  | 25.5  | 25.1 | 56.0  | 3.5   | 8.0   | 25.0  | 1.5   | 14.0  | 0.0   | 24.5  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| DHORIYA      | 1993 | 12.1  | 22.3  | 71.5  | 76.2  | 7.6  | 149.9 | 30.6  | 130.2 | 74.0  | 36.5  | 38.6  | 6.1   | 35.4  | 8.4   | 25.4  | 9.2   | 0.0  | 36.8 | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| DHORIYA      | 1994 | 20.6  | 0.0   | 7.0   | 62.6  | 87.6 | 15.2  | 100.8 | 28.0  | 9.8   | 0.0   | 49.0  | 13.2  | 0.0   | 33.1  | 89.4  | 0.0   | 0.0  | 6.4  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| DHORIYA      | 1995 | 37.0  | 105.8 | 48.0  | 0.0   | 40.0 | 86.0  | 165.2 | 24.4  | 5.0   | 5.2   | 0.0   | 92.6  | 229.0 | 0.0   | 0.0   | 50.0  | 0.0  | 0.0  | 5.5  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 12.8 |
| DHORIYA      | 1996 | 4.0   | 82.8  | 18.2  | 4.8   | 44.7 | 105.6 | 96.6  | 61.2  | 57.6  | 47.2  | 55.0  | 54.0  | 16.0  | 105.6 | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| DHORIYA      | 1997 | 43.0  | 141.0 | 61.6  | 26.2  | 10.6 | 6.2   | 135.2 | 12.0  | 68.2  | 0.0   | 23.4  | 15.4  | 54.6  | 11.0  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 37.0 | 0.0 | 0.0 | 0.0 | 17.0 | 0.0 | 0.0  |
| DHORIYA      | 1998 | 58.0  | 245.4 | 78.6  | 2.6   | 59.0 | 64.6  | 81.8  | 33.0  | 36.0  | 141.4 | 18.0  | 2.6   | 27.0  | 25.0  | 0.0   | 50.2  | 4.6  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| DHORIYA      | 1999 | 5.6   | 268.2 | 62.4  | 5.4   | 8.0  | 32.0  | 119.0 | 98.5  | 142.5 | 0.0   | 159.0 | 30.0  | 144.0 | 38.5  | 0.0   | 157.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| DHORIYA      | 2000 | 0.0   | 62.0  | 188.0 | 88.0  | 16.0 | 36.2  | 37.0  | 0.0   | 131.4 | 14.0  | 0.0   | 627.2 | 63.2  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| DHORIYA      | 2001 | 17.6  | 11.2  | 40.8  | 49.4  | 56.4 | 0.0   | 34.2  | 18.0  | 131.5 | 158.6 | 67.6  | 210.0 | 0.0   | 102.8 | 0.0   | 14.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| DHORIYA      | 2002 | 214.0   | 4.6   | 132.0 | 7.0   | 0.0  | 137.0 | 173.0 | 36.0  | 18.0  | 13.0  | 97.0  | 93.0  | 244.6 | 13.4  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| DHORIYA      | 2003 | 3.2   | 96.8  | 0.0   | 96.0  | 75.6 | 10.4  | 58.7  | 49.0  | 31.1  | 39.0  | 26.3  | 3.0   | 54.5  | 30.0  | 116.3 | 5.3   | 57.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| DHORIYA      | 2004 | 45.4  | 29.0  | 29.6  | 14.3  | 43.7 | 46.4  | 74.0  | 57.0  | 49.0  | 32.0  | 22.6  | 143.2 | 165.0 | 164.4 | 12.2  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| DHORIYA      | 2005 | 22.0  | 252.0 | 86.0  | 12.5  | 0.0  | 192.0 | 2.0   | 44.2  | 0.0   | 1.4   | 8.1   | 10.4  | 0.0   | 0.0   | 5.9   | 28.8  | 18.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| DHORIYA      | 2006 | 41.9  | 176.5 | 9.9   | 34.5  | 97.0 | 83.4  | 0.0   | 7.8   | 66.0  | 10.5  | 38.5  | 154.0 | 163.0 | 3.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| DHORIYA      | 2007 | 157.1   | 12.0  | 337.5 | 170.0 | 24.0 | 2.0   | 103.0 | 0.0   | 0.0   | 54.0  | 65.0  | 2.0   | 104.0 | 11.0  | 6.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| DHORIYA      | 2008 | 159.0   | 10.5  | 13.0  | 5.5   | 1.0  | 26.0  | 2.5   | 7.0   | 0.0   | 0.0   | 10.0  | 5.0   | 9.0   | 5.0   | 40.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| DHORIYA      | 2009 | 1.5   | 0.0   | 2.0   | 73.4  | 29.0 | 12.5  | 129.0 | 15.0  | 55.0  | 49.0  | 65.5  | 4.5   | 0.0   | 17.3  | 35.2  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| DHORIYA      | 2010 | 0.0   | 59.0  | 8.0   | 7.0   | 17.0 | 8.0   | 32.0  | 42.0  | 0.0   | 8.0   | 94.6  | 3.0   | 0.0   | 0.0   | 4.0   | 0.0   | 3.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| DHORIYA      | 2011 | 26.0  | 28.2  | 98.0  | 15.0  | 78.0 | 216.5 | 41.2  | 12.4  | 2.0   | 12.1  | 57.0  | 80.0  | 10.2  | 8.4   | 0.0   | 18.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| DHORIYA      | 2012 | 71.0  | 27.4  | 160.6 | 19.2  | 41.5 | 43.2  | 76.3  | 60.1  | 42.3  | 71.9  | 63.9  | 20.6  | 3.8   | 22.4  | 28.8  | 0.0   | 0.0  | 40.6 | 52.6 | 0.0  | 0.0 | 0.0 | 0.0 | 2.0  | 0.0 | 0.0  |
| DHORIYA      | 2013 | 24.8  | 61.8  | 7.6   | 58.1  | 35.9 | 88.6  | 49.3  | 66.6  | 66.2  | 13.4  | 2.5   | 16.6  | 29.4  | 41.9  | 132.0 | 7.2   | 21.5 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |

| Station Name | Year | Weekly Rainfall Data in mm for January to December (week nos. 01-26) |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |
|--------------|------|--|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
|              |      | 01   | 02   | 03   | 04   | 05   | 06   | 07   | 08   | 09   | 10  | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21    | 22    | 23    | 24    | 25    | 26    |
| GODDA        | 1992 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 13.0 | 0.0  | 36.0 | 15.0 | 13.6  | 49.8  | 11.6  | 30.6  | 2.6   |       |
| GODDA        | 1993 | 0.0  | 45.0 | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 16.0 | 23.1 | 0.0  | 2.0  | 0.0  | 11.0 | 0.0  | 0.0  | 0.4  | 69.6 | 30.6  | 0.0   | 14.6  | 167.6 | 77.3  |       |
| GODDA        | 1994 | 0.0  | 0.0  | 20.4 | 0.0  | 18.4 | 17.8 | 0.0  | 31.4 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.2  | 25.4 | 10.0 | 0.0   | 115.4 | 46.2  | 98.4  | 100.8 |       |
| GODDA        | 1995 | 0.0  | 8.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.6  | 25.0 | 0.0  | 23.8  | 0.0   | 21.0  | 165.2 | 106.0 |       |
| GODDA        | 1996 | 0.0  | 0.0  | 6.0  | 0.0  | 0.0  | 0.0  | 0.0  | 18.0 | 90.8 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 86.4 | 0.0  | 0.0  | 0.0  | 0.0  | 12.6  | 49.2  | 0.0   | 246.6 | 244.0 |       |
| GODDA        | 1997 | 0.0  | 0.0  | 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 60.6 | 9.2  | 0.0  | 18.0 | 0.0  | 19.0  | 8.6   | 0.0   | 51.0  | 85.6  |       |
| GODDA        | 1998 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 35.2 | 0.0  | 0.0 | 21.6 | 47.2 | 0.0  | 0.0  | 0.0  | 18.4 | 0.0  | 0.0  | 34.4 | 0.0  | 16.4  | 0.0   | 37.6  | 17.9  | 4.4   |       |
| GODDA        | 1999 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 25.0 | 43.4 | 61.8 | 45.2  | 0.0   | 90.2  | 96.1  | 217.2 |       |
| GODDA        | 2000 | 0.0  | 0.0  | 0.0  | 0.0  | 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 20.0 | 45.6 | 39.0 | 0.0  | 0.0  | 6.0  | 54.6 | 32.0  | 60.0  | 51.0  | 78.8  | 16.0  |       |
| GODDA        | 2001 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 20.0  | 40.0  | 143.0 | 117.0 | 34.0  |       |
| GODDA        | 2002 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 14.0 | 12.2 | 0.0  | 0.0  | 20.4 | 0.0  | 28.6 | 0.0  | 14.8  | 0.0   | 0.0   | 33.8  | 46.2  |       |
| GODDA        | 2003 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 24.4 | 0.0  | 0.0  | 0.0  | 0.0  | 42.6 | 0.0  | 0.0  | 8.2  | 3.4  | 8.6   | 0.0   | 21.0  | 20.2  | 10.8  | 44.2  |
| GODDA        | 2004 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 16.0 | 0.0  | 18.0 | 51.0 | 0.0  | 0.0  | 0.0  | 43.0 | 7.2   | 0.0   | 57.4  | 125.4 | 5.4   |       |
| GODDA        | 2005 | 0.0  | 0.0  | 0.0  | 0.0  | 5.6  | 0.0  | 4.0  | 0.0  | 0.0  | 0.0 | 3.0  | 4.0  | 0.0  | 0.0  | 7.9  | 9.5  | 0.0  | 9.6  | 0.0  | 8.0  | 14.9  | 0.0   | 34.0  | 0.0   | 3.8   | 158.6 |
| GODDA        | 2006 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 184.5 | 0.0   | 38.2  | 38.5  |       |
| GODDA        | 2007 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 33.2 | 0.0  | 14.0 | 0.0 | 9.0  | 0.0  | 0.0  | 0.0  | 0.0  | 14.6 | 0.0  | 0.0  | 33.8 | 24.8 | 12.2  | 0.0   | 17.4  | 96.2  | 48.8  | 12.6  |
| GODDA        | 2008 | 0.0  | 0.0  | 0.0  | 25.0 | 6.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.8  | 1.8  | 6.0  | 28.5  | 0.0   | 90.2  | 68.2  | 80.0  | 37.0  |
| GODDA        | 2009 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.2  | 61.0 | 4.2  | 115.5 | 33.4  | 0.0   | 0.0   | 0.0   | 5.0   |
| GODDA        | 2010 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.4  | 0.0  | 0.0  | 0.0 | 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 19.6  | 109.4 | 76.0  |       |
| GODDA        | 2011 | 0.0  | 0.0  | 2.6  | 0.0  | 0.0  | 0.0  | 3.4  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 9.4  | 0.0  | 10.4 | 43.4 | 0.0  | 23.8 | 1.6  | 55.4 | 26.8  | 24.8  | 2.2   | 76.4  | 74.6  | 97.4  |
| GODDA        | 2012 | 6.2  | 0.0  | 3.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 2.0  | 0.0  | 0.0  | 3.0  | 15.2 | 0.0  | 0.0  | 6.4  | 9.2  | 0.0  | 0.0   | 0.0   | 10.8  | 0.0   | 24.6  | 20.6  |
| GODDA        | 2013 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 12.0 | 0.0  | 0.0  | 0.0 | 2.0  | 0.0  | 0.0  | 0.0  | 2.0  | 25.6 | 15.0 | 0.0  | 0.0  | 26.4 | 17.4  | 47.4  | 31.8  | 30.4  | 34.6  | 118.8 |



| Station Name | Year | Weekly Rainfall Data in mm for January to December (week nos.27-52) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |       |      |     |     |     |      |     |      |
|--------------|------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|------|-----|-----|-----|------|-----|------|
|              |      | 27  | 28    | 29    | 30    | 31    | 32    | 33    | 34    | 35    | 36    | 37    | 38    | 39    | 40    | 41    | 42    | 43   | 44   | 45    | 46   | 47  | 48  | 49  | 50   | 51  | 52   |
| GODDA        | 1992 | 39.0  | 245.2 | 184.6 | 53.8  | 26.8  | 104.6 | 54.8  | 28.6  | 78.8  | 0.0   | 9.2   | 0.0   | 364.6 | 6.4   | 122.9 | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| GODDA        | 1993 | 84.1  | 68.4  | 130.8 | 138.4 | 30.2  | 158.3 | 37.8  | 303.6 | 108.8 | 89.6  | 68.2  | 31.0  | 74.6  | 29.0  | 0.0   | 29.0  | 0.0  | 27.6 | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| GODDA        | 1994 | 25.0  | 8.6   | 20.6  | 181.6 | 127.0 | 3.4   | 237.8 | 70.8  | 23.2  | 5.4   | 57.8  | 16.4  | 0.0   | 17.2  | 165.8 | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| GODDA        | 1995 | 187.4   | 342.4 | 74.9  | 58.0  | 160.0 | 136.8 | 177.6 | 24.4  | 20.8  | 83.4  | 11.4  | 116.0 | 432.4 | 0.0   | 0.0   | 40.0  | 5.4  | 0.0  | 140.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 26.2 |
| GODDA        | 1996 | 27.6  | 62.3  | 6.2   | 4.6   | 70.4  | 67.9  | 72.5  | 108.0 | 88.8  | 23.0  | 31.8  | 18.8  | 52.0  | 112.4 | 0.0   | 0.0   | 0.0  | 10.8 | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| GODDA        | 1997 | 125.6   | 418.8 | 120.8 | 81.3  | 96.5  | 6.8   | 102.6 | 25.2  | 140.4 | 20.3  | 31.6  | 33.2  | 54.2  | 0.0   | 0.0   | 0.0   | 20.0 | 0.0  | 41.2  | 21.0 | 0.0 | 8.0 | 0.0 | 39.2 | 0.0 | 0.0  |
| GODDA        | 1998 | 113.4   | 143.4 | 105.8 | 0.0   | 39.6  | 25.4  | 210.3 | 46.6  | 67.8  | 215.8 | 41.0  | 61.0  | 59.2  | 37.4  | 2.0   | 79.0  | 0.0  | 4.0  | 27.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| GODDA        | 1999 | 19.0  | 283.8 | 93.0  | 147.0 | 34.0  | 71.2  | 96.2  | 139.6 | 79.4  | 4.4   | 160.8 | 52.0  | 410.2 | 46.0  | 0.0   | 213.4 | 3.4  | 0.0  | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| GODDA        | 2000 | 0.0   | 62.0  | 188.0 | 88.0  | 16.0  | 36.2  | 37.0  | 0.0   | 131.4 | 14.0  | 0.0   | 627.2 | 63.2  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| GODDA        | 2001 | 17.0  | 19.0  | 20.3  | 82.0  | 65.3  | 20.0  | 5.3   | 93.5  | 86.9  | 136.2 | 19.0  | 10.0  | 15.8  | 181.0 | 9.0   | 17.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| GODDA        | 2002 | 61.8  | 0.0   | 71.0  | 2.6   | 28.0  | 53.1  | 148.5 | 25.0  | 21.0  | 35.0  | 75.8  | 21.5  | 56.2  | 48.2  | 0.2   | 55.2  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| GODDA        | 2003 | 25.4  | 69.6  | 0.0   | 46.7  | 69.0  | 9.8   | 62.2  | 38.8  | 29.0  | 22.8  | 21.8  | 47.6  | 99.7  | 25.0  | 149.2 | 0.0   | 63.4 | 0.0  | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| GODDA        | 2004 | 71.4  | 46.6  | 47.4  | 15.6  | 23.2  | 40.9  | 0.0   | 25.0  | 50.0  | 0.0   | 19.0  | 85.2  | 4.4   | 127.8 | 64.4  | 0.0   | 0.0  | 2.4  | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| GODDA        | 2005 | 82.4  | 81.6  | 63.6  | 23.0  | 14.4  | 6.0   | 9.4   | 10.4  | 0.0   | 1.4   | 8.1   | 10.4  | 0.0   | 0.0   | 5.9   | 28.8  | 18.0 | 0.0  | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| GODDA        | 2006 | 22.2  | 338.0 | 29.0  | 40.5  | 42.0  | 46.0  | 44.0  | 111.5 | 25.5  | 6.5   | 76.5  | 247.2 | 208.5 | 0.0   | 0.0   | 4.0   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| GODDA        | 2007 | 43.1  | 90.6  | 338.6 | 99.0  | 42.5  | 27.4  | 64.0  | 0.0   | 30.6  | 106.4 | 41.0  | 23.8  | 206.0 | 17.6  | 19.0  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| GODDA        | 2008 | 80.1  | 60.2  | 63.2  | 78.8  | 5.4   | 113.0 | 54.4  | 30.0  | 4.0   | 35.6  | 43.0  | 86.4  | 51.2  | 14.6  | 21.0  | 97.4  | 78.0 | 48.2 | 62.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| GODDA        | 2009 | 41.4  | 35.2  | 71.0  | 82.4  | 22.0  | 87.8  | 126.4 | 5.8   | 97.6  | 85.2  | 135.4 | 7.0   | 2.8   | 25.0  | 71.2  | 0.0   | 0.0  | 0.0  | 0.0   | 6.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| GODDA        | 2010 | 7.8   | 114.2 | 11.6  | 15.2  | 58.6  | 57.6  | 71.2  | 103.6 | 0.0   | 6.0   | 65.4  | 28.4  | 0.0   | 0.0   | 4.2   | 0.0   | 5.2  | 15.2 | 0.0   | 0.0  | 0.0 | 0.0 | 8.6 | 0.0  | 0.0 | 0.0  |
| GODDA        | 2011 | 11.4  | 52.0  | 65.8  | 147.0 | 18.8  | 289.2 | 50.0  | 21.2  | 3.4   | 8.2   | 70.0  | 125.2 | 12.4  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| GODDA        | 2012 | 45.2  | 60.6  | 222.4 | 9.0   | 20.4  | 39.4  | 29.4  | 21.8  | 0.0   | 40.4  | 73.2  | 23.8  | 0.0   | 10.4  | 18.6  | 0.0   | 0.0  | 12.4 | 42.8  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| GODDA        | 2013 | 45.2  | 55.4  | 12.8  | 40.2  | 26.0  | 115.4 | 105.4 | 124.4 | 260.4 | 150.8 | 27.6  | 55.4  | 109.0 | 48.0  | 182.4 | 108.8 | 37.2 | 0.0  | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |

| Station Name | Year | Weekly Rainfall Data in mm for January to December (week nos. 01-26) |     |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |     |      |      |      |      |       |       |       |       |      |
|--------------|------|--|-----|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|-----|------|------|------|------|-------|-------|-------|-------|------|
|              |      | 01   | 02  | 03   | 04   | 05   | 06   | 07   | 08   | 09   | 10  | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18  | 19   | 20   | 21   | 22   | 23    | 24    | 25    | 26    |      |
| PARAIYAHAT   | 1992 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 24.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 15.4 | 24.7 | 0.0 | 23.6 | 15.4 | 2.1  | 2.0  | 46.2  | 9.2   | 25.6  |       |      |
| PARAIYAHAT   | 1993 | 0.0  | 0.0 | 0.0  | 0.0  | 6.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 8.4  | 12.6 | 0.0  | 21.4 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 40.6 | 9.8  | 6.4   | 7.2   | 58.8  | 50.2  |      |
| PARAIYAHAT   | 1994 | 0.0  | 0.0 | 11.0 | 0.0  | 15.0 | 4.2  | 0.0  | 11.6 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.4  | 61.6 | 28.0  | 31.0  | 28.2  |       |      |
| PARAIYAHAT   | 1995 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 15.4 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 10.4 | 0.0  | 7.4  | 0.0   | 25.0  | 109.2 | 76.8  |      |
| PARAIYAHAT   | 1996 | 0.0  | 0.0 | 1.8  | 0.0  | 0.0  | 0.0  | 0.0  | 1.2  | 12.8 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 33.4 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.6  | 53.0  | 0.0   | 74.6  | 145.0 |      |
| PARAIYAHAT   | 1997 | 0.0  | 0.0 | 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.2 | 0.0  | 18.0 | 0.0  | 19.0 | 8.6   | 0.0   | 51.0  | 85.6  |      |
| PARAIYAHAT   | 1998 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 35.2 | 0.0  | 0.0 | 0.0  | 21.6 | 47.2 | 0.0  | 0.0  | 0.0  | 18.4 | 0.0 | 0.0  | 34.4 | 0.0  | 16.4 | 0.0   | 37.6  | 17.9  | 4.4   |      |
| PARAIYAHAT   | 1999 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 25.0 | 43.4 | 61.8 | 45.2 | 0.0   | 90.2  | 96.1  | 217.2 |      |
| PARAIYAHAT   | 2000 | 0.0  | 0.0 | 0.0  | 0.0  | 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 20.0 | 45.6 | 39.0 | 0.0 | 0.0  | 6.0  | 54.6 | 32.0 | 60.0  | 51.0  | 78.8  | 16.0  |      |
| PARAIYAHAT   | 2001 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 20.0 | 40.0  | 143.0 | 117.0 | 34.0  |      |
| PARAIYAHAT   | 2002 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 18.0 | 0.0   | 14.0  | 17.0  | 153.0 |      |
| PARAIYAHAT   | 2003 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 31.0 | 0.0  | 30.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.0  | 0.0 | 0.0  | 7.0  | 0.0  | 0.0  | 9.0   | 6.0   | 7.0   | 37.0  |      |
| PARAIYAHAT   | 2004 | 0.0  | 0.0 | 1.0  | 12.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 16.0 | 0.0  | 18.0 | 51.0 | 0.0 | 0.0  | 7.0  | 0.0  | 20.0 | 35.0  | 43.0  | 205.0 | 0.0   |      |
| PARAIYAHAT   | 2005 | 0.0  | 0.0 | 0.0  | 0.0  | 5.6  | 0.0  | 4.0  | 0.0  | 0.0  | 0.0 | 3.0  | 4.0  | 0.0  | 0.0  | 7.9  | 9.5  | 0.0  | 9.6 | 0.0  | 8.0  | 14.9 | 0.0  | 22.0  | 0.0   | 32.6  | 158.6 |      |
| PARAIYAHAT   | 2006 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 184.5 | 0.0   | 38.2  | 38.5  |      |
| PARAIYAHAT   | 2007 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 13.6 | 58.8 | 0.0  | 17.8 | 0.0 | 7.2  | 0.0  | 0.0  | 0.0  | 1.4  | 11.2 | 0.0  | 0.0 | 27.6 | 6.8  | 0.0  | 1.8  | 29.0  | 64.0  | 21.0  | 4.0   |      |
| PARAIYAHAT   | 2008 | 0.0  | 0.0 | 0.0  | 12.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 10.2 | 0.0  | 0.0  | 0.0  | 2.0 | 5.0  | 4.0  | 7.0  | 2.0  | 29.6  | 56.5  | 56.5  | 53.6  |      |
| PARAIYAHAT   | 2009 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.5 | 52.2 | 0.0  | 56.0 | 6.0  | 0.0   | 9.0   | 2.5   | 10.5  |      |
| PARAIYAHAT   | 2010 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 0.0  | 0.0  | 0.0 | 26.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 11.4  | 93.1  | 44.7 |
| PARAIYAHAT   | 2011 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 1.2  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 21.0 | 0.0  | 5.0  | 11.0 | 0.0  | 4.0 | 0.0  | 18.0 | 0.0  | 7.0  | 8.0   | 21.0  | 87.1  | 93.0  |      |
| PARAIYAHAT   | 2012 | 8.0  | 0.0 | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 7.0  | 0.0  | 0.0  | 5.0  | 6.0  | 0.0  | 0.0  | 0.0 | 14.0 | 0.0  | 0.0  | 0.0  | 5.0   | 16.0  | 45.0  | 12.0  |      |
| PARAIYAHAT   | 2013 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 4.0  | 0.0  | 0.0  | 0.0 | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 13.8 | 5.0  | 0.0 | 15.0 | 0.0  | 15.0 | 46.0 | 2.0   | 21.0  | 16.0  | 27.0  |      |

| Station Name | Year | Weekly Rainfall Data in mm for January to December (week nos.27-52) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |     |     |     |      |     |     |
|--------------|------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|-----|-----|-----|------|-----|-----|
|              |      | 27  | 28    | 29    | 30    | 31    | 32    | 33    | 34    | 35    | 36    | 37    | 38    | 39    | 40    | 41    | 42    | 43   | 44   | 45   | 46   | 47  | 48  | 49  | 50   | 51  | 52  |
| PARAIYAHAT   | 1992 | 20.0  | 180.4 | 184.4 | 31.0  | 25.8  | 90.8  | 25.0  | 34.6  | 13.0  | 0.0   | 0.0   | 0.0   | 161.8 | 0.0   | 1.4   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| PARAIYAHAT   | 1993 | 9.0   | 18.2  | 39.6  | 76.4  | 3.0   | 57.8  | 27.2  | 133.0 | 75.2  | 35.2  | 29.4  | 0.0   | 84.2  | 6.6   | 0.0   | 12.6  | 0.0  | 7.6  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| PARAIYAHAT   | 1994 | 15.2  | 8.8   | 14.6  | 58.0  | 65.4  | 17.2  | 59.6  | 50.4  | 6.0   | 9.0   | 42.2  | 22.0  | 0.0   | 23.0  | 61.6  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| PARAIYAHAT   | 1995 | 57.4  | 101.6 | 31.0  | 23.0  | 60.4  | 69.0  | 27.0  | 4.0   | 6.0   | 54.8  | 24.0  | 99.0  | 154.2 | 12.8  | 4.4   | 4.8   | 0.0  | 16.0 | 68.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 1.0 | 3.8 |
| PARAIYAHAT   | 1996 | 15.0  | 19.2  | 17.0  | 8.2   | 44.2  | 22.2  | 56.4  | 104.2 | 26.4  | 8.2   | 25.6  | 70.0  | 50.4  | 72.2  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| PARAIYAHAT   | 1997 | 125.6   | 418.8 | 120.8 | 81.3  | 96.5  | 6.8   | 102.6 | 25.2  | 140.4 | 20.3  | 31.6  | 33.2  | 54.2  | 0.0   | 0.0   | 0.0   | 20.0 | 0.0  | 41.2 | 21.0 | 0.0 | 8.0 | 0.0 | 39.2 | 0.0 | 0.0 |
| PARAIYAHAT   | 1998 | 113.4   | 143.4 | 105.8 | 0.0   | 39.6  | 25.4  | 210.3 | 46.6  | 67.8  | 215.8 | 41.0  | 61.0  | 59.2  | 37.4  | 2.0   | 79.0  | 0.0  | 4.0  | 27.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| PARAIYAHAT   | 1999 | 19.0  | 283.8 | 93.0  | 147.0 | 34.0  | 71.2  | 96.2  | 139.6 | 79.4  | 4.4   | 160.8 | 52.0  | 410.2 | 46.0  | 0.0   | 213.4 | 3.4  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| PARAIYAHAT   | 2000 | 0.0   | 62.0  | 188.0 | 88.0  | 16.0  | 36.2  | 37.0  | 0.0   | 131.4 | 14.0  | 0.0   | 627.2 | 63.2  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| PARAIYAHAT   | 2001 | 17.0  | 19.0  | 20.3  | 82.0  | 65.3  | 20.0  | 5.3   | 93.5  | 86.9  | 136.2 | 19.0  | 10.0  | 15.8  | 181.0 | 9.0   | 17.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| PARAIYAHAT   | 2002 | 121.0   | 0.0   | 58.0  | 49.0  | 23.0  | 63.0  | 243.0 | 171.0 | 15.0  | 18.0  | 80.0  | 45.0  | 273.0 | 0.0   | 8.0   | 48.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| PARAIYAHAT   | 2003 | 13.0  | 47.0  | 0.0   | 52.4  | 41.8  | 11.3  | 35.6  | 31.2  | 57.0  | 66.9  | 21.8  | 55.0  | 107.7 | 25.0  | 235.0 | 0.0   | 75.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| PARAIYAHAT   | 2004 | 83.0  | 22.0  | 145.0 | 5.2   | 111.2 | 30.2  | 14.0  | 58.0  | 16.2  | 69.4  | 53.0  | 154.4 | 100.6 | 232.0 | 35.6  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| PARAIYAHAT   | 2005 | 82.4  | 81.6  | 63.6  | 23.0  | 14.4  | 6.0   | 9.4   | 10.4  | 0.0   | 1.4   | 8.1   | 10.4  | 0.0   | 0.0   | 5.9   | 28.8  | 18.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| PARAIYAHAT   | 2006 | 22.2  | 338.0 | 29.0  | 40.5  | 42.0  | 46.0  | 44.0  | 111.5 | 25.5  | 6.5   | 76.5  | 247.2 | 208.5 | 0.0   | 0.0   | 4.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| PARAIYAHAT   | 2007 | 39.4  | 3.4   | 218.1 | 125.5 | 29.0  | 12.4  | 17.0  | 11.0  | 2.2   | 18.6  | 10.5  | 23.6  | 225.4 | 15.0  | 13.2  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| PARAIYAHAT   | 2008 | 102.4   | 111.0 | 94.2  | 36.6  | 7.0   | 60.6  | 47.2  | 10.0  | 24.0  | 4.6   | 30.0  | 48.0  | 76.0  | 7.0   | 1.6   | 78.0  | 33.0 | 43.0 | 25.6 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| PARAIYAHAT   | 2009 | 18.6  | 47.4  | 52.0  | 8.0   | 11.6  | 18.0  | 18.2  | 14.4  | 15.2  | 146.2 | 11.0  | 8.2   | 7.0   | 60.0  | 51.2  | 0.0   | 0.0  | 0.0  | 0.0  | 5.2  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| PARAIYAHAT   | 2010 | 0.0   | 42.0  | 66.0  | 23.0  | 30.0  | 0.0   | 15.0  | 77.0  | 0.0   | 0.0   | 51.0  | 19.0  | 16.0  | 14.0  | 0.0   | 0.0   | 8.0  | 3.0  | 0.0  | 0.0  | 0.0 | 0.0 | 5.0 | 0.0  | 0.0 | 0.0 |
| PARAIYAHAT   | 2011 | 4.0   | 6.0   | 48.0  | 14.0  | 13.0  | 178.2 | 102.0 | 34.0  | 20.0  | 25.0  | 25.0  | 102.3 | 0.0   | 0.0   | 0.0   | 8.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| PARAIYAHAT   | 2012 | 24.0  | 36.0  | 68.6  | 6.0   | 7.0   | 23.4  | 38.0  | 46.0  | 0.0   | 29.6  | 79.0  | 9.0   | 2.0   | 18.0  | 27.0  | 0.0   | 0.0  | 30.0 | 28.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| PARAIYAHAT   | 2013 | 0.0   | 14.0  | 14.0  | 33.0  | 16.0  | 77.6  | 2.0   | 55.0  | 109.0 | 32.0  | 0.0   | 27.0  | 22.0  | 54.4  | 154.0 | 24.0  | 20.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |

| Station Name | Year | Weekly Rainfall Data in mm for January to December (week nos. 01-26) |      |     |      |     |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |
|--------------|------|--|------|-----|------|-----|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|
|              |      | 01   | 02   | 03  | 04   | 05  | 06   | 07   | 08   | 09   | 10  | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23    | 24    | 25    | 26    |
| PATHARGAMA   | 1992 | 0.0  | 0.0  | 0.0 | 1.6  | 1.1 | 20.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.4  | 0.0  | 11.6 | 0.0  | 27.0 | 25.6 | 3.0  | 18.8 | 6.8   | 62.0  | 15.2  |       |
| PATHARGAMA   | 1993 | 0.0  | 11.2 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 29.0 | 0.0  | 22.0 | 4.0  | 0.0  | 16.0 | 0.0  | 1.0  | 6.0  | 19.5 | 0.0   | 7.0   | 51.0  | 34.0  |
| PATHARGAMA   | 1994 | 0.0  | 0.0  | 8.4 | 0.0  | 9.0 | 9.4  | 0.0  | 11.6 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 35.8 | 3.0  | 0.4  | 0.0  | 31.0 | 15.2  | 10.2  | 31.6  |       |
| PATHARGAMA   | 1995 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0 | 0.0  | 7.0  | 8.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.2  | 1.4  | 0.0  | 4.8  | 7.8  | 14.4  | 63.4  | 22.6  |       |
| PATHARGAMA   | 1996 | 0.0  | 0.0  | 3.0 | 0.0  | 0.0 | 0.0  | 0.0  | 1.0  | 19.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 33.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.6  | 53.0  | 0.0   | 74.6  | 145.0 |
| PATHARGAMA   | 1997 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 84.9  |
| PATHARGAMA   | 1998 | 0.0  | 0.0  | 0.0 | 22.0 | 0.0 | 4.8  | 0.0  | 0.0  | 0.0  | 0.0 | 7.0  | 0.0  | 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 31.0 | 25.8 | 0.0  | 0.0   | 0.0   | 26.4  | 79.2  |
| PATHARGAMA   | 1999 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 40.0 | 35.4 | 77.8 | 83.4 | 0.0  | 35.0  | 116.5 | 220.0 |       |
| PATHARGAMA   | 2000 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 7.6 | 0.0  | 0.0  | 0.0  | 0.0  | 10.0 | 0.0  | 12.0 | 0.0  | 20.0 | 0.0  | 35.0 | 14.4 | 40.2  | 0.0   | 30.0  | 16.0  |
| PATHARGAMA   | 2001 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 20.0 | 40.0  | 143.0 | 117.0 | 34.0  |
| PATHARGAMA   | 2002 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 14.0 | 12.2 | 0.0  | 0.0  | 20.4 | 0.0  | 28.6 | 0.0  | 14.8 | 0.0   | 0.0   | 33.8  | 46.2  |
| PATHARGAMA   | 2003 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 24.4 | 0.0  | 0.0  | 0.0  | 0.0  | 42.6 | 0.0  | 0.0  | 8.2  | 3.4  | 8.6  | 0.0  | 21.0  | 20.2  | 10.8  | 44.2  |
| PATHARGAMA   | 2004 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 16.0 | 0.0  | 18.0 | 51.0 | 0.0  | 0.0  | 0.0  | 43.0 | 7.2  | 0.0   | 57.4  | 125.4 | 5.4   |
| PATHARGAMA   | 2005 | 0.0  | 0.0  | 0.0 | 7.0  | 1.8 | 0.0  | 0.0  | 0.0  | 0.0  | 4.2 | 2.4  | 28.4 | 0.0  | 0.0  | 7.9  | 9.5  | 0.0  | 9.6  | 0.0  | 8.0  | 14.9 | 0.0  | 22.0  | 0.0   | 32.6  | 158.6 |
| PATHARGAMA   | 2006 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 184.5 | 0.0   | 38.2  | 38.5  |
| PATHARGAMA   | 2007 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0 | 0.0  | 33.2 | 0.0  | 14.0 | 0.0 | 9.0  | 0.0  | 0.0  | 0.0  | 0.0  | 14.6 | 0.0  | 0.0  | 33.8 | 24.8 | 12.2 | 0.0  | 17.4  | 96.2  | 48.8  | 12.6  |
| PATHARGAMA   | 2008 | 0.0  | 0.0  | 0.0 | 25.0 | 6.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 8.2  | 0.0  | 0.0  | 0.0  | 6.8  | 1.8  | 6.0  | 28.5 | 0.0  | 58.8  | 126.8 | 84.2  | 63.1  |
| PATHARGAMA   | 2009 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.4  | 20.2 | 40.6 | 23.0 | 18.6 | 0.0   | 0.0   | 0.0   | 95.8  |
| PATHARGAMA   | 2010 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 10.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.8   | 6.4   | 72.6  |
| PATHARGAMA   | 2011 | 0.0  | 0.0  | 2.4 | 0.0  | 0.0 | 0.0  | 8.6  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.2  | 0.0  | 0.0  | 14.6 | 0.0  | 2.8  | 18.6 | 38.4 | 25.2 | 14.4 | 4.2   | 63.6  | 68.0  | 82.2  |
| PATHARGAMA   | 2012 | 9.0  | 0.0  | 2.8 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 5.0  | 0.0  | 0.6  | 3.6  | 2.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.0  | 0.0  | 31.2  | 18.0  | 91.6  | 18.0  |
| PATHARGAMA   | 2013 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0 | 0.0  | 20.2 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 4.0  | 17.2 | 9.0  | 0.0  | 0.0  | 50.0 | 18.2 | 42.4 | 8.0   | 16.2  | 15.4  | 53.2  |

| Station Name | Year | Weekly Rainfall Data in mm for January to December (week nos.27-52) |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |     |     |     |      |     |      |
|--------------|------|---|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|-----|-----|-----|------|-----|------|
|              |      | 27  | 28    | 29    | 30    | 31   | 32    | 33    | 34    | 35    | 36    | 37    | 38    | 39    | 40    | 41    | 42    | 43   | 44   | 45   | 46   | 47  | 48  | 49  | 50   | 51  | 52   |
| PATHARGAMA   | 1992 | 46.2  | 133.8 | 187.4 | 41.0  | 15.4 | 67.1  | 12.2  | 40.2  | 8.4   | 0.0   | 46.0  | 0.0   | 206.0 | 0.0   | 95.2  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| PATHARGAMA   | 1993 | 7.4   | 33.4  | 30.8  | 63.2  | 2.0  | 39.8  | 33.0  | 253.6 | 48.0  | 137.0 | 33.2  | 4.6   | 96.2  | 3.4   | 0.0   | 50.6  | 0.0  | 12.2 | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| PATHARGAMA   | 1994 | 20.6  | 0.0   | 2.4   | 89.6  | 55.0 | 9.8   | 73.0  | 61.6  | 13.2  | 0.0   | 98.4  | 7.6   | 0.0   | 0.0   | 65.3  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| PATHARGAMA   | 1995 | 35.0  | 123.0 | 16.6  | 12.8  | 26.8 | 53.4  | 91.2  | 0.0   | 15.8  | 65.4  | 0.0   | 103.4 | 203.8 | 0.0   | 2.0   | 3.6   | 2.6  | 0.0  | 40.6 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 1.2 | 15.4 |
| PATHARGAMA   | 1996 | 15.0  | 19.2  | 17.0  | 8.2   | 44.2 | 22.2  | 56.4  | 104.2 | 26.4  | 8.2   | 25.6  | 70.0  | 50.4  | 72.2  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| PATHARGAMA   | 1997 | 83.2  | 224.3 | 71.6  | 32.2  | 74.2 | 11.5  | 82.6  | 25.4  | 86.8  | 8.4   | 126.6 | 8.4   | 5.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 17.0 | 0.0 | 0.0 | 0.0 | 31.0 | 0.0 |      |
| PATHARGAMA   | 1998 | 20.0  | 194.0 | 128.4 | 8.4   | 42.1 | 49.2  | 150.4 | 15.0  | 23.3  | 198.2 | 12.8  | 12.3  | 40.0  | 17.5  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| PATHARGAMA   | 1999 | 46.0  | 8.0   | 13.6  | 55.8  | 28.0 | 69.1  | 91.6  | 138.2 | 65.0  | 41.0  | 381.6 | 30.0  | 166.8 | 67.2  | 0.0   | 172.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| PATHARGAMA   | 2000 | 0.0   | 62.0  | 188.0 | 88.0  | 16.0 | 36.2  | 37.0  | 0.0   | 131.4 | 14.0  | 0.0   | 627.2 | 63.2  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| PATHARGAMA   | 2001 | 17.0  | 19.0  | 20.3  | 82.0  | 65.3 | 20.0  | 5.3   | 93.5  | 86.9  | 136.2 | 19.0  | 10.0  | 15.8  | 181.0 | 9.0   | 17.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| PATHARGAMA   | 2002 | 61.8  | 0.0   | 71.0  | 2.6   | 28.0 | 53.1  | 148.5 | 25.0  | 21.0  | 35.0  | 75.8  | 21.5  | 56.2  | 48.2  | 0.2   | 55.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| PATHARGAMA   | 2003 | 25.4  | 69.6  | 0.0   | 46.7  | 69.0 | 9.8   | 62.2  | 38.8  | 29.0  | 22.8  | 59.0  | 47.6  | 99.7  | 25.0  | 149.2 | 0.0   | 63.4 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| PATHARGAMA   | 2004 | 71.4  | 46.6  | 47.4  | 15.6  | 23.2 | 40.9  | 0.0   | 25.0  | 50.0  | 0.0   | 19.0  | 85.2  | 4.4   | 127.8 | 64.4  | 0.0   | 0.0  | 2.4  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| PATHARGAMA   | 2005 | 82.4  | 81.6  | 63.6  | 23.0  | 14.4 | 6.0   | 9.4   | 10.4  | 0.0   | 1.4   | 8.1   | 10.4  | 0.0   | 0.0   | 5.9   | 28.8  | 18.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| PATHARGAMA   | 2006 | 22.2  | 338.0 | 29.0  | 40.5  | 42.0 | 46.0  | 44.0  | 111.5 | 25.5  | 6.5   | 76.5  | 247.2 | 208.5 | 0.0   | 0.0   | 4.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| PATHARGAMA   | 2007 | 43.1  | 90.6  | 338.6 | 99.0  | 42.5 | 27.4  | 64.0  | 0.0   | 30.6  | 106.4 | 41.0  | 23.8  | 206.0 | 17.6  | 19.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| PATHARGAMA   | 2008 | 91.2  | 127.6 | 96.4  | 42.0  | 7.0  | 52.4  | 29.4  | 38.0  | 24.8  | 31.4  | 35.2  | 37.8  | 129.6 | 31.4  | 13.2  | 47.8  | 89.4 | 52.2 | 56.4 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| PATHARGAMA   | 2009 | 18.6  | 29.4  | 90.8  | 156.0 | 15.2 | 54.0  | 196.4 | 33.8  | 54.0  | 92.7  | 117.6 | 0.0   | 26.0  | 35.4  | 75.2  | 0.0   | 0.0  | 0.0  | 0.0  | 6.8  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| PATHARGAMA   | 2010 | 1.0   | 101.1 | 13.6  | 14.0  | 80.8 | 8.0   | 30.2  | 109.2 | 0.0   | 0.0   | 106.8 | 19.4  | 10.6  | 0.0   | 0.0   | 0.0   | 4.2  | 11.6 | 0.0  | 0.0  | 0.0 | 0.0 | 9.6 | 0.0  | 0.0 | 0.0  |
| PATHARGAMA   | 2011 | 75.2  | 34.0  | 66.0  | 58.6  | 36.2 | 244.8 | 96.0  | 14.0  | 0.0   | 25.2  | 36.4  | 97.4  | 4.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| PATHARGAMA   | 2012 | 9.4   | 52.6  | 252.6 | 43.6  | 7.0  | 15.2  | 34.2  | 3.8   | 0.0   | 14.2  | 86.0  | 34.0  | 0.0   | 1.0   | 59.2  | 0.0   | 0.0  | 8.2  | 61.2 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |
| PATHARGAMA   | 2013 | 53.6  | 6.0   | 11.2  | 17.6  | 6.0  | 62.0  | 79.4  | 53.6  | 326.8 | 26.2  | 35.0  | 10.0  | 59.0  | 79.4  | 53.6  | 326.8 | 50.6 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  |

| Station Name | Year | Weekly Rainfall Data in mm for January to December (week nos. 01-26) |      |      |      |      |     |      |      |      |     |      |      |      |      |      |      |      |      |       |      |       |      |       |       |       |       |
|--------------|------|--|------|------|------|------|-----|------|------|------|-----|------|------|------|------|------|------|------|------|-------|------|-------|------|-------|-------|-------|-------|
|              |      | 01   | 02   | 03   | 04   | 05   | 06  | 07   | 08   | 09   | 10  | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19    | 20   | 21    | 22   | 23    | 24    | 25    | 26    |
| SUNDARPAHADI | 1992 | 0.0  | 30.5 | 0.0  | 0.0  | 0.0  | 3.5 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.5  | 0.0   | 18.0 | 17.0  | 25.0 | 6.0   | 33.0  | 26.2  | 17.4  |
| SUNDARPAHADI | 1993 | 0.0  | 15.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 25.0 | 1.2  | 0.0  | 12.0 | 0.0  | 0.0  | 0.0  | 0.0   | 26.7 | 15.0  | 61.0 | 24.4  | 24.0  | 0.0   | 71.8  |
| SUNDARPAHADI | 1994 | 6.0  | 0.0  | 9.2  | 0.0  | 23.4 | 0.0 | 0.0  | 13.0 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 35.8  | 3.0  | 0.4   | 0.0  | 60.0  | 38.9  | 39.2  | 14.0  |
| SUNDARPAHADI | 1995 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 2.2  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 20.2 | 0.0   | 0.0  | 0.0   | 43.5  | 73.4  | 61.0  |
| SUNDARPAHADI | 1996 | 0.0  | 0.0  | 5.0  | 0.0  | 0.0  | 0.0 | 0.0  | 20.0 | 66.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 55.0 | 0.0  | 0.0   | 20.2 | 0.0   | 0.0  | 29.0  | 0.0   | 142.8 | 155.0 |
| SUNDARPAHADI | 1997 | 0.0  | 0.0  | 14.0 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 9.0  | 0.0  | 0.0  | 4.0  | 6.0  | 21.0  | 9.0  | 0.0   | 35.0 | 4.0   | 0.0   | 47.0  | 114.0 |
| SUNDARPAHADI | 1998 | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | 0.0 | 21.0 | 0.0  | 0.0  | 0.0 | 0.0  | 26.4 | 48.6 | 0.0  | 0.0  | 0.0  | 12.0 | 26.5 | 0.0   | 0.0  | 13.0  | 0.0  | 0.0   | 29.5  | 30.0  | 0.0   |
| SUNDARPAHADI | 1999 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 53.0  | 33.0 | 52.0  | 83.0 | 0.0   | 110.0 | 110.0 | 86.8  |
| SUNDARPAHADI | 2000 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 4.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 15.1  | 56.0 | 52.0  | 0.0   | 159.0 | 16.0  |
| SUNDARPAHADI | 2001 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 20.0 | 40.0  | 143.0 | 117.0 | 34.0  |
| SUNDARPAHADI | 2002 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 6.0  | 10.6 | 7.0  | 4.0   | 27.0 | 19.6  | 78.0 | 4.5   | 55.0  | 41.5  | 29.0  |
| SUNDARPAHADI | 2003 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0 | 24.4 | 0.0  | 0.0  | 0.0  | 0.0  | 42.6 | 0.0  | 0.0  | 8.2   | 3.4  | 8.6   | 0.0  | 21.0  | 20.2  | 10.8  | 44.2  |
| SUNDARPAHADI | 2004 | 0.0  | 0.0  | 1.0  | 12.0 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 16.0 | 0.0  | 18.0 | 51.0 | 0.0  | 0.0   | 7.0  | 0.0   | 20.0 | 0.0   | 122.2 | 125.4 | 5.4   |
| SUNDARPAHADI | 2005 | 0.0  | 0.0  | 2.1  | 5.8  | 2.1  | 0.0 | 2.0  | 0.0  | 0.0  | 4.2 | 2.4  | 28.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.6  | 0.0   | 8.0  | 14.9  | 0.0  | 0.0   | 0.0   | 0.0   | 109.0 |
| SUNDARPAHADI | 2006 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 184.5 | 0.0   | 38.2  | 38.5  |
| SUNDARPAHADI | 2007 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.0 | 42.0 | 0.0  | 16.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 28.0 | 0.0  | 0.0  | 101.4 | 0.0  | 0.0   | 27.0 | 27.0  | 155.7 | 90.2  | 70.0  |
| SUNDARPAHADI | 2008 | 0.0  | 0.0  | 0.0  | 31.8 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 9.4  | 0.0  | 0.0  | 0.0  | 0.0  | 20.0  | 7.0  | 75.4  | 0.0  | 10.0  | 41.2  | 91.0  | 39.5  |
| SUNDARPAHADI | 2009 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 13.2  | 15.2 | 138.4 | 46.0 | 28.2  | 3.0   | 0.0   | 18.2  |
| SUNDARPAHADI | 2010 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.8   | 6.4   | 72.6  |
| SUNDARPAHADI | 2011 | 0.0  | 0.0  | 2.4  | 0.0  | 0.0  | 0.0 | 8.6  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.2  | 0.0  | 0.0  | 14.6 | 0.0  | 2.8  | 18.6  | 38.4 | 25.2  | 14.4 | 4.2   | 63.6  | 68.0  | 82.2  |
| SUNDARPAHADI | 2012 | 4.0  | 0.0  | 3.7  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0 | 2.0  | 0.0  | 0.0  | 8.2  | 20.2 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 22.3  | 0.0   | 47.0  | 39.0  |
| SUNDARPAHADI | 2013 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 8.2  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 27.2 | 15.6 | 0.0  | 36.0  | 2.0  | 4.2   | 42.4 | 8.0   | 16.2  | 15.4  | 53.2  |

| Station Name | Year | Weekly Rainfall Data in mm for January to December (week nos.27-52) |       |       |       |      |       |       |       |       |       |       |       |       |       |      |       |      |       |       |      |     |     |     |      |     |     |
|--------------|------|---|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|-------|------|-----|-----|-----|------|-----|-----|
|              |      | 27  | 28    | 29    | 30    | 31   | 32    | 33    | 34    | 35    | 36    | 37    | 38    | 39    | 40    | 41   | 42    | 43   | 44    | 45    | 46   | 47  | 48  | 49  | 50   | 51  | 52  |
| SUNDARPAHADI | 1992 | 38.8  | 175.6 | 126.0 | 97.4  | 15.8 | 86.6  | 96.6  | 104.4 | 29.4  | 0.0   | 14.0  | 0.0   | 252.0 | 97.0  | 46.4 | 3.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| SUNDARPAHADI | 1993 | 38.4  | 93.6  | 83.4  | 113.0 | 11.6 | 107.4 | 0.0   | 235.4 | 65.0  | 57.8  | 71.6  | 14.4  | 88.2  | 33.0  | 0.0  | 18.0  | 0.0  | 5.0   | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| SUNDARPAHADI | 1994 | 19.6  | 7.0   | 35.4  | 30.2  | 61.6 | 31.8  | 101.3 | 48.0  | 30.0  | 4.8   | 39.2  | 4.1   | 0.0   | 50.8  | 62.8 | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| SUNDARPAHADI | 1995 | 132.6   | 256.2 | 101.6 | 66.0  | 44.5 | 40.0  | 175.0 | 0.0   | 11.0  | 47.0  | 52.0  | 168.4 | 371.0 | 0.0   | 4.0  | 18.0  | 0.0  | 0.0   | 116.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 7.8 |
| SUNDARPAHADI | 1996 | 61.0  | 53.2  | 0.0   | 21.0  | 33.0 | 81.0  | 128.6 | 114.5 | 102.0 | 62.7  | 45.0  | 26.0  | 38.6  | 69.6  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| SUNDARPAHADI | 1997 | 120.0   | 254.0 | 143.0 | 21.0  | 87.0 | 24.0  | 95.0  | 10.0  | 179.0 | 18.0  | 22.0  | 24.0  | 7.0   | 0.0   | 10.0 | 0.0   | 10.0 | 6.0   | 10.6  | 42.0 | 0.0 | 0.0 | 0.0 | 26.0 | 0.0 | 0.0 |
| SUNDARPAHADI | 1998 | 76.8  | 186.8 | 153.0 | 0.0   | 20.6 | 52.0  | 128.8 | 30.4  | 24.6  | 112.0 | 53.0  | 21.0  | 89.0  | 141.6 | 2.0  | 32.0  | 8.0  | 18.0  | 22.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| SUNDARPAHADI | 1999 | 47.0  | 106.8 | 36.2  | 94.2  | 81.2 | 71.4  | 78.0  | 94.0  | 100.0 | 9.0   | 143.8 | 146.0 | 396.0 | 79.0  | 0.0  | 165.0 | 0.0  | 25.0  | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| SUNDARPAHADI | 2000 | 0.0   | 62.0  | 188.0 | 88.0  | 16.0 | 36.2  | 37.0  | 0.0   | 131.4 | 14.0  | 0.0   | 627.2 | 63.2  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| SUNDARPAHADI | 2001 | 17.0  | 19.0  | 20.3  | 82.0  | 65.3 | 20.0  | 5.3   | 93.5  | 86.9  | 136.2 | 19.0  | 10.0  | 15.8  | 181.0 | 9.0  | 17.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| SUNDARPAHADI | 2002 | 54.0  | 11.5  | 75.0  | 29.5  | 15.4 | 40.5  | 184.0 | 52.0  | 21.0  | 35.0  | 75.8  | 21.5  | 93.0  | 14.0  | 32.5 | 92.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| SUNDARPAHADI | 2003 | 25.4  | 69.6  | 0.0   | 46.7  | 69.0 | 9.8   | 62.2  | 42.0  | 48.2  | 84.5  | 59.0  | 4.0   | 164.9 | 67.0  | 64.4 | 12.0  | 0.0  | 2.4   | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| SUNDARPAHADI | 2004 | 128.8   | 35.2  | 56.6  | 22.0  | 26.3 | 39.0  | 27.4  | 127.4 | 57.5  | 5.5   | 76.0  | 104.0 | 38.0  | 217.0 | 13.0 | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| SUNDARPAHADI | 2005 | 101.1   | 39.4  | 76.0  | 46.6  | 35.2 | 69.0  | 6.0   | 200.6 | 0.0   | 61.4  | 66.8  | 27.2  | 24.0  | 18.0  | 0.0  | 74.0  | 38.0 | 130.0 | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| SUNDARPAHADI | 2006 | 22.2  | 338.0 | 29.0  | 40.5  | 42.0 | 46.0  | 44.0  | 111.5 | 25.5  | 6.5   | 76.5  | 247.2 | 208.5 | 0.0   | 0.0  | 4.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| SUNDARPAHADI | 2007 | 114.6   | 108.8 | 247.2 | 143.6 | 96.2 | 41.2  | 71.6  | 13.0  | 33.2  | 67.0  | 40.0  | 38.6  | 203.4 | 38.2  | 26.4 | 15.2  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| SUNDARPAHADI | 2008 | 113.4   | 165.1 | 120.7 | 53.0  | 18.4 | 61.8  | 30.2  | 21.4  | 70.3  | 0.0   | 47.4  | 54.8  | 174.2 | 0.0   | 0.0  | 102.2 | 65.2 | 109.0 | 18.2  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| SUNDARPAHADI | 2009 | 44.2  | 58.4  | 88.4  | 59.2  | 42.4 | 6.8   | 91.0  | 19.2  | 66.0  | 138.0 | 35.2  | 27.0  | 10.0  | 68.0  | 68.0 | 0.0   | 0.0  | 0.0   | 0.0   | 7.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| SUNDARPAHADI | 2010 | 1.0   | 101.1 | 13.6  | 14.0  | 80.8 | 8.0   | 30.2  | 109.2 | 0.0   | 0.0   | 106.8 | 19.4  | 10.6  | 0.0   | 0.0  | 0.0   | 4.2  | 11.6  | 0.0   | 0.0  | 0.0 | 0.0 | 9.6 | 0.0  | 0.0 | 0.0 |
| SUNDARPAHADI | 2011 | 0.0   | 85.0  | 209.0 | 38.4  | 63.4 | 387.0 | 81.4  | 3.4   | 2.0   | 6.2   | 53.5  | 73.0  | 15.2  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| SUNDARPAHADI | 2012 | 43.5  | 125.2 | 98.7  | 47.8  | 23.4 | 86.2  | 18.6  | 2.0   | 0.0   | 56.0  | 65.6  | 18.4  | 0.0   | 37.0  | 34.6 | 0.0   | 0.0  | 38.0  | 30.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |
| SUNDARPAHADI | 2013 | 2.0   | 9.0   | 1.0   | 58.8  | 6.0  | 62.0  | 79.4  | 53.6  | 326.8 | 92.8  | 0.0   | 24.8  | 54.2  | 79.4  | 53.6 | 326.8 | 50.6 | 0.0   | 0.0   | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 |





|              |      |             |             |              |             |              |             |             |              |             |             |             |              |              |             |              |              |              |             |              |              |              |              |              |               |               |               |        |       |
|--------------|------|-------------|-------------|--------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|-------------|--------------|--------------|-------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|--------|-------|
| Barahat      | 1997 | 0.00        | 0.00        | 12.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00         | 0.00        | 32.00        | 0.00         | 0.00         | 0.00         | 3.00         | 32.00         | 0.00          | 22.50         | 55.60  | 68.00 |
| Dhoriya      | 1997 | 3.00        | 0.00        | 2.00         | 2.00        | 0.00         | 0.00        | 14.00       | 2.00         | 0.00        | 2.00        | 11.00       | 14.00        | 55.40        | 4.00        | 2.60         | 4.20         | 0.00         | 18.00       | 2.60         | 0.00         | 8.40         | 6.80         | 0.00         | 12.60         | 10.20         | 19.20         |        |       |
| Godda        | 1997 | 0.00        | 0.00        | 35.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00         | 0.00         | 60.60        | 9.20        | 0.00         | 18.00        | 0.00         | 19.00        | 8.60         | 0.00          | 51.00         | 85.60         |        |       |
| Pathargama   | 1997 | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00   | 84.90 |
| Poraiyahat   | 1997 | 0.00        | 0.00        | 35.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00         | 9.20        | 0.00         | 18.00        | 0.00         | 19.00        | 8.60         | 0.00          | 51.00         | 85.60         |        |       |
| Sunderpahari | 1997 | 0.00        | 0.00        | 14.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00         | 9.00        | 0.00         | 0.00         | 4.00         | 6.00        | 21.00        | 9.00         | 0.00         | 35.00        | 4.00         | 0.00          | 47.00         | 114.00        |        |       |
| Weighted RF  | 1997 | <b>0.06</b> | <b>0.00</b> | <b>26.59</b> | <b>0.04</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.26</b> | <b>0.04</b>  | <b>0.00</b> | <b>0.04</b> | <b>0.21</b> | <b>0.26</b>  | <b>1.04</b>  | <b>1.58</b> | <b>0.05</b>  | <b>0.08</b>  | <b>18.78</b> | <b>7.32</b> | <b>3.55</b>  | <b>13.20</b> | <b>0.53</b>  | <b>22.24</b> | <b>6.26</b>  | <b>3.00</b>   | <b>48.01</b>  | <b>86.90</b>  |        |       |
| Barahat      | 1998 | 3.00        | 0.00        | 2.00         | 2.00        | 0.00         | 0.00        | 14.00       | 2.00         | 0.00        | 2.00        | 11.00       | 14.00        | 55.40        | 4.00        | 2.60         | 4.20         | 0.00         | 18.00       | 2.60         | 0.00         | 8.40         | 6.80         | 0.00         | 12.60         | 10.20         | 19.20         |        |       |
| Dhoriya      | 1998 | 3.00        | 0.00        | 2.00         | 2.00        | 0.00         | 0.00        | 14.00       | 2.00         | 0.00        | 2.00        | 11.00       | 14.00        | 55.40        | 4.00        | 2.60         | 4.20         | 0.00         | 18.00       | 2.60         | 0.00         | 8.40         | 6.80         | 0.00         | 12.60         | 10.20         | 19.20         |        |       |
| Godda        | 1998 | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 35.20        | 0.00        | 0.00        | 0.00        | 21.60        | 47.20        | 0.00        | 0.00         | 0.00         | 18.40        | 0.00        | 0.00         | 34.40        | 0.00         | 16.40        | 0.00         | 37.60         | 17.90         | 4.40          |        |       |
| Pathargama   | 1998 | 0.00        | 0.00        | 0.00         | 22.00       | 0.00         | 4.80        | 0.00        | 0.00         | 0.00        | 0.00        | 7.00        | 0.00         | 40.00        | 0.00        | 0.00         | 0.00         | 0.00         | 0.00        | 0.00         | 31.00        | 25.80        | 0.00         | 0.00         | 0.00          | 26.40         | 79.20         |        |       |
| Poraiyahat   | 1998 | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 35.20        | 0.00        | 0.00        | 0.00        | 21.60        | 47.20        | 0.00        | 0.00         | 0.00         | 18.40        | 0.00        | 0.00         | 34.40        | 0.00         | 16.40        | 0.00         | 37.60         | 17.90         | 4.40          |        |       |
| Sunderpahari | 1998 | 0.00        | 0.00        | 3.00         | 0.00        | 0.00         | 0.00        | 21.00       | 0.00         | 0.00        | 0.00        | 0.00        | 26.40        | 48.60        | 0.00        | 0.00         | 0.00         | 12.00        | 26.50       | 0.00         | 0.00         | 13.00        | 0.00         | 0.00         | 29.50         | 30.00         | 0.00          |        |       |
| Weighted RF  | 1998 | <b>0.42</b> | <b>0.00</b> | <b>0.78</b>  | <b>1.20</b> | <b>0.00</b>  | <b>0.20</b> | <b>5.48</b> | <b>23.16</b> | <b>0.00</b> | <b>0.28</b> | <b>1.85</b> | <b>20.42</b> | <b>48.29</b> | <b>0.57</b> | <b>0.37</b>  | <b>0.59</b>  | <b>13.96</b> | <b>6.97</b> | <b>0.37</b>  | <b>23.65</b> | <b>4.43</b>  | <b>11.62</b> | <b>0.00</b>  | <b>31.14</b>  | <b>19.18</b>  | <b>8.89</b>   |        |       |
| Barahat      | 1999 | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00         | 14.00        | 10.00        | 0.00        | 0.00         | 0.00         | 5.60         | 0.00         | 16.00        | 69.60         | 24.20         | 148.20        |        |       |
| Dhoriya      | 1999 | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00         | 14.00        | 10.00        | 0.00        | 0.00         | 0.00         | 5.60         | 0.00         | 16.00        | 69.60         | 24.20         | 148.20        |        |       |
| Godda        | 1999 | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00         | 0.00        | 25.00        | 43.40        | 61.80        | 45.20        | 0.00         | 90.20         | 96.10         | 217.20        |        |       |
| Pathargama   | 1999 | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00         | 0.00        | 40.00        | 35.40        | 77.80        | 83.40        | 0.00         | 35.00         | 116.50        | 220.00        |        |       |
| Poraiyahat   | 1999 | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00         | 0.00        | 25.00        | 43.40        | 61.80        | 45.20        | 0.00         | 90.20         | 96.10         | 217.20        |        |       |
| Sunderpahari | 1999 | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00         | 0.00        | 53.00        | 33.00        | 52.00        | 83.00        | 0.00         | 110.00        | 110.00        | 86.80         |        |       |
| Weighted RF  | 1999 | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>  | <b>1.98</b>  | <b>1.42</b>  | <b>0.00</b> | <b>26.75</b> | <b>35.18</b> | <b>52.87</b> | <b>46.69</b> | <b>2.27</b>  | <b>88.28</b>  | <b>89.08</b>  | <b>185.80</b> |        |       |
| Barahat      | 2000 | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 20.50       | 0.00         | 0.00         | 0.00        | 41.00        | 0.00         | 32.50        | 23.50       | 0.00         | 26.00        | 32.50        | 0.00         | 64.50        | 34.50         | 72.60         | 16.00         |        |       |
| Dhoriya      | 2000 | 0.00        | 0.00        | 0.00         | 0.00        | 3.60         | 0.00        | 7.40        | 18.40        | 0.00        | 0.00        | 20.00       | 9.90         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 10.40         | 17.20         | 61.20         | 51.30  |       |
| Godda        | 2000 | 0.00        | 0.00        | 0.00         | 0.00        | 35.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 20.00        | 45.60        | 39.00        | 0.00        | 0.00         | 6.00         | 54.60        | 32.00        | 60.00        | 51.00         | 78.80         | 16.00         |        |       |
| Pathargama   | 2000 | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 7.60        | 0.00        | 0.00         | 0.00         | 0.00        | 10.00        | 0.00         | 12.00        | 0.00        | 20.00        | 0.00         | 35.00        | 14.40        | 40.20        | 0.00          | 30.00         | 16.00         |        |       |
| Poraiyahat   | 2000 | 0.00        | 0.00        | 0.00         | 0.00        | 35.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 20.00        | 45.60        | 39.00        | 0.00        | 0.00         | 6.00         | 54.60        | 32.00        | 60.00        | 51.00         | 78.80         | 16.00         |        |       |
| Sunderpahari | 2000 | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 4.00         | 0.00        | 0.00         | 0.00         | 0.00         | 0.00        | 0.00         | 0.00         | 15.10        | 56.00        | 52.00        | 0.00          | 159.00        | 16.00         |        |       |
| Weighted RF  | 2000 | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>22.81</b> | <b>0.00</b> | <b>0.14</b> | <b>0.34</b>  | <b>0.00</b> | <b>0.32</b> | <b>2.89</b> | <b>0.19</b>  | <b>0.67</b>  | <b>0.00</b> | <b>18.45</b> | <b>29.63</b> | <b>29.84</b> | <b>2.89</b> | <b>0.83</b>  | <b>7.10</b>  | <b>43.46</b> | <b>30.73</b> | <b>57.46</b> | <b>37.71</b>  | <b>89.04</b>  | <b>16.66</b>  |        |       |
| Barahat      | 2001 | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 7.20         | 0.00        | 0.00         | 9.40         | 0.00         | 5.20        | 8.20         | 16.80        | 0.00         | 73.20        | 45.20        | 52.60         | 225.40        | 59.40         |        |       |
| Dhoriya      | 2001 | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 7.20         | 0.00        | 0.00         | 9.40         | 0.00         | 5.20        | 8.20         | 16.80        | 0.00         | 73.20        | 45.20        | 52.60         | 225.40        | 59.40         |        |       |
| Godda        | 2001 | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00         | 0.00         | 20.00        | 40.00         | 143.00        | 117.00        | 34.00  |       |
| Pathargama   | 2001 | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00         | 0.00         | 20.00        | 40.00         | 143.00        | 117.00        | 34.00  |       |
| Poraiyahat   | 2001 | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00         | 0.00         | 20.00        | 40.00         | 143.00        | 117.00        | 34.00  |       |
| Sunderpahari | 2001 | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00         | 0.00         | 20.00        | 40.00         | 143.00        | 117.00        | 34.00  |       |
| Weighted RF  | 2001 | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>  | <b>1.02</b>  | <b>0.00</b> | <b>0.00</b>  | <b>1.33</b>  | <b>0.00</b>  | <b>0.74</b> | <b>1.16</b>  | <b>2.38</b>  | <b>0.00</b>  | <b>27.54</b> | <b>40.74</b> | <b>130.19</b> | <b>132.36</b> | <b>37.60</b>  |        |       |
| Barahat      | 2002 | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 3.00         | 2.00        | 0.00        | 0.00        | 0.00         | 0.00         | 11.00       | 0.00         | 8.60         | 7.00         | 13.00       | 4.00         | 7.00         | 21.00        | 34.50        | 55.00        | 35.00         | 100.40        | 30.00         |        |       |
| Dhoriya      | 2002 | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 3.00         | 2.00        | 0.00        | 0.00        | 0.00         | 0.00         | 11.00       | 0.00         | 8.60         | 7.00         | 13.00       | 4.00         | 7.00         | 21.00        | 34.50        | 55.00        | 35.00         | 100.40        | 30.00         |        |       |
| Godda        | 2002 | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00         | 14.00       | 12.20        | 0.00         | 0.00         | 20.40       | 0.00         | 28.60        | 0.00         | 14.80        | 0.00         | 0.00          | 33.80         | 46.20         |        |       |
| Pathargama   | 2002 | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00         | 14.00       | 12.20        | 0.00         | 0.00         | 20.40       | 0.00         | 28.60        | 0.00         | 14.80        | 0.00         | 0.00          | 33.80         | 46.20         |        |       |
| Poraiyahat   | 2002 | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00         | 0.00         | 18.00        | 0.00          | 14.00         | 17.00         | 153.00 |       |
| Sunderpahari | 2002 | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 2.00         | 6.00         | 10.60        | 7.00        | 4.00         | 27.00        | 19.60        | 78.00        | 4.50         | 55.00         | 41.50         | 29.00         |        |       |
| Weighted RF  | 2002 | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> | <b>0.42</b>  | <b>0.28</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b>  | <b>5.42</b> | <b>3.70</b>  | <b>2.22</b>  | <b>2.76</b>  | <b>8.63</b> | <b>1.23</b>  | <b>13.38</b> | <b>6.24</b>  | <b>29.46</b> | <b>8.54</b>  | <b>19.95</b>  | <b>37.53</b>  | <b>85.45</b>  |        |       |

|                    |             |             |             |             |              |             |             |              |             |              |             |              |             |             |              |              |              |              |              |              |              |              |              |               |              |               |               |
|--------------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|---------------|---------------|
| Barahat            | 2003        | 0.00        | 0.00        | 0.00        | 0.00         | 3.60        | 0.00        | 7.40         | 18.40       | 0.00         | 0.00        | 20.00        | 9.90        | 0.00        | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 10.40         | 17.20        | 61.20         | 51.30         |
| Dhoriya            | 2003        | 0.00        | 0.00        | 0.00        | 0.00         | 3.60        | 0.00        | 7.40         | 18.40       | 0.00         | 0.00        | 20.00        | 9.90        | 0.00        | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 10.40         | 17.20        | 61.20         | 51.30         |
| Godda              | 2003        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 24.40        | 0.00        | 0.00        | 0.00         | 0.00         | 42.60        | 0.00         | 0.00         | 8.20         | 3.40         | 8.60         | 0.00         | 21.00         | 20.20        | 10.80         | 44.20         |
| Pathargama         | 2003        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 24.40        | 0.00        | 0.00        | 0.00         | 0.00         | 42.60        | 0.00         | 0.00         | 8.20         | 3.40         | 8.60         | 0.00         | 21.00         | 20.20        | 10.80         | 44.20         |
| Poraiyahat         | 2003        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 31.00        | 0.00        | 30.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00         | 0.00         | 6.00         | 0.00         | 0.00         | 7.00         | 0.00         | 0.00         | 9.00          | 6.00         | 7.00          | 37.00         |
| Sunderpahari       | 2003        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 24.40        | 0.00        | 0.00        | 0.00         | 0.00         | 42.60        | 0.00         | 0.00         | 8.20         | 3.40         | 8.60         | 0.00         | 21.00         | 20.20        | 10.80         | 44.20         |
| <b>Weighted RF</b> | <b>2003</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>  | <b>0.51</b> | <b>0.00</b> | <b>13.94</b> | <b>2.61</b> | <b>12.48</b> | <b>0.00</b> | <b>13.63</b> | <b>1.40</b> | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b>  | <b>18.85</b> | <b>2.50</b>  | <b>0.00</b>  | <b>3.63</b>  | <b>4.42</b>  | <b>3.81</b>  | <b>0.00</b>  | <b>14.51</b>  | <b>13.87</b> | <b>16.36</b>  | <b>42.21</b>  |
| Barahat            | 2004        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 6.50        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00         | 12.40        | 0.00         | 0.00         | 0.00         | 22.60        | 0.00         | 13.00        | 27.00         | 279.40       | 0.00          |               |
| Dhoriya            | 2004        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 6.50        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00         | 12.40        | 0.00         | 0.00         | 0.00         | 22.60        | 0.00         | 13.00        | 27.00         | 279.40       | 0.00          |               |
| Godda              | 2004        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 16.00        | 0.00         | 18.00        | 51.00        | 0.00         | 0.00         | 0.00         | 43.00        | 7.20         | 0.00          | 57.40        | 125.40        | 5.40          |
| Pathargama         | 2004        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 16.00        | 0.00         | 18.00        | 51.00        | 0.00         | 0.00         | 0.00         | 43.00        | 7.20         | 0.00          | 57.40        | 125.40        | 5.40          |
| Poraiyahat         | 2004        | 0.00        | 0.00        | 1.00        | 12.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 16.00        | 0.00         | 18.00        | 51.00        | 0.00         | 0.00         | 7.00         | 0.00         | 20.00        | 35.00         | 43.00        | 205.00        | 0.00          |
| Sunderpahari       | 2004        | 0.00        | 0.00        | 1.00        | 12.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 16.00        | 0.00         | 18.00        | 51.00        | 0.00         | 0.00         | 7.00         | 0.00         | 20.00        | 0.00          | 122.20       | 125.40        | 5.40          |
| <b>Weighted RF</b> | <b>2004</b> | <b>0.00</b> | <b>0.00</b> | <b>0.58</b> | <b>6.99</b>  | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>  | <b>0.92</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> | <b>13.73</b> | <b>0.00</b>  | <b>15.45</b> | <b>45.53</b> | <b>0.00</b>  | <b>0.00</b>  | <b>4.08</b>  | <b>15.06</b> | <b>13.64</b> | <b>16.40</b>  | <b>57.91</b> | <b>180.32</b> | <b>2.39</b>   |
| Barahat            | 2005        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 6.50          | 4.20         | 0.00          | 147.50        |
| Dhoriya            | 2005        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 6.50          | 4.20         | 0.00          | 147.50        |
| Godda              | 2005        | 0.00        | 0.00        | 0.00        | 0.00         | 5.60        | 0.00        | 4.00         | 0.00        | 0.00         | 0.00        | 3.00         | 4.00        | 0.00        | 0.00         | 7.90         | 9.50         | 0.00         | 9.60         | 0.00         | 8.00         | 14.90        | 0.00         | 34.00         | 0.00         | 3.80          | 158.60        |
| Pathargama         | 2005        | 0.00        | 0.00        | 0.00        | 7.00         | 1.80        | 0.00        | 0.00         | 0.00        | 0.00         | 4.20        | 2.40         | 28.40       | 0.00        | 0.00         | 7.90         | 9.50         | 0.00         | 9.60         | 0.00         | 8.00         | 14.90        | 0.00         | 22.00         | 0.00         | 32.60         | 158.60        |
| Poraiyahat         | 2005        | 0.00        | 0.00        | 0.00        | 0.00         | 5.60        | 0.00        | 4.00         | 0.00        | 0.00         | 0.00        | 3.00         | 4.00        | 0.00        | 0.00         | 7.90         | 9.50         | 0.00         | 9.60         | 0.00         | 8.00         | 14.90        | 0.00         | 22.00         | 0.00         | 32.60         | 158.60        |
| Sunderpahari       | 2005        | 0.00        | 0.00        | 2.10        | 5.80         | 2.10        | 0.00        | 2.00         | 0.00        | 0.00         | 4.20        | 2.40         | 28.40       | 0.00        | 0.00         | 0.00         | 0.00         | 0.00         | 9.60         | 0.00         | 8.00         | 14.90        | 0.00         | 0.00          | 0.00         | 0.00          | 109.00        |
| <b>Weighted RF</b> | <b>2005</b> | <b>0.00</b> | <b>0.00</b> | <b>0.35</b> | <b>1.26</b>  | <b>4.06</b> | <b>0.00</b> | <b>2.93</b>  | <b>0.00</b> | <b>0.00</b>  | <b>0.88</b> | <b>2.45</b>  | <b>8.52</b> | <b>0.00</b> | <b>0.00</b>  | <b>5.46</b>  | <b>6.57</b>  | <b>0.00</b>  | <b>8.24</b>  | <b>0.00</b>  | <b>6.87</b>  | <b>12.79</b> | <b>0.00</b>  | <b>18.94</b>  | <b>0.59</b>  | <b>15.81</b>  | <b>148.76</b> |
| Barahat            | 2006        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 184.50        | 0.00         | 38.20         | 38.50         |
| Dhoriya            | 2006        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 184.50        | 0.00         | 38.20         | 38.50         |
| Godda              | 2006        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 184.50        | 0.00         | 38.20         | 38.50         |
| Pathargama         | 2006        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 184.50        | 0.00         | 38.20         | 38.50         |
| Poraiyahat         | 2006        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 184.50        | 0.00         | 38.20         | 38.50         |
| Sunderpahari       | 2006        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 184.50        | 0.00         | 38.20         | 38.50         |
| <b>Weighted RF</b> | <b>2006</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b>  | <b>184.50</b> | <b>0.00</b>  | <b>38.20</b>  | <b>38.50</b>  |
| Barahat            | 2007        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 13.60       | 58.80        | 0.00        | 17.80        | 0.00        | 7.20         | 0.00        | 0.00        | 0.00         | 1.40         | 11.20        | 0.00         | 0.00         | 27.60        | 6.80         | 0.00         | 1.80         | 17.80         | 40.00        | 8.80          | 30.40         |
| Dhoriya            | 2007        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 13.60       | 58.80        | 0.00        | 17.80        | 0.00        | 7.20         | 0.00        | 0.00        | 0.00         | 1.40         | 11.20        | 0.00         | 0.00         | 27.60        | 6.80         | 0.00         | 1.80         | 17.80         | 40.00        | 8.80          | 30.40         |
| Godda              | 2007        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 33.20        | 0.00        | 14.00        | 0.00        | 9.00         | 0.00        | 0.00        | 0.00         | 0.00         | 14.60        | 0.00         | 0.00         | 33.80        | 24.80        | 12.20        | 0.00         | 17.40         | 96.20        | 48.80         | 12.60         |
| Pathargama         | 2007        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 33.20        | 0.00        | 14.00        | 0.00        | 9.00         | 0.00        | 0.00        | 0.00         | 0.00         | 14.60        | 0.00         | 0.00         | 33.80        | 24.80        | 12.20        | 0.00         | 17.40         | 96.20        | 48.80         | 12.60         |
| Poraiyahat         | 2007        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 13.60       | 58.80        | 0.00        | 17.80        | 0.00        | 7.20         | 0.00        | 0.00        | 0.00         | 1.40         | 11.20        | 0.00         | 0.00         | 27.60        | 6.80         | 0.00         | 1.80         | 29.00         | 64.00        | 21.00         | 4.00          |
| Sunderpahari       | 2007        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 8.00        | 42.00        | 0.00        | 16.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00         | 28.00        | 0.00         | 0.00         | 101.40       | 0.00         | 0.00         | 27.00        | 27.00         | 155.70       | 90.20         | 70.00         |
| <b>Weighted RF</b> | <b>2007</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>8.92</b> | <b>48.94</b> | <b>0.00</b> | <b>16.45</b> | <b>0.00</b> | <b>6.50</b>  | <b>0.00</b> | <b>0.00</b> | <b>0.78</b>  | <b>14.94</b> | <b>0.00</b>  | <b>0.00</b>  | <b>41.61</b> | <b>10.63</b> | <b>3.36</b>  | <b>5.51</b>  | <b>23.88</b> | <b>84.77</b>  | <b>38.48</b> | <b>21.12</b>  |               |
| Barahat            | 2008        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 28.40       | 0.00         | 2.20         | 0.00         | 3.60         | 0.00         | 0.00         | 5.40         | 0.00         | 6.40         | 35.00         | 100.20       | 91.40         |               |
| Dhoriya            | 2008        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00         | 0.00         | 0.00         | 4.00         | 7.00         | 0.00         | 0.00         | 6.40         | 35.00         | 100.20       | 91.40         |               |
| Godda              | 2008        | 0.00        | 0.00        | 0.00        | 25.00        | 6.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00         | 0.00         | 6.80         | 1.80         | 6.00         | 28.50        | 0.00         | 90.20        | 68.20         | 80.00        | 37.00         |               |
| Pathargama         | 2008        | 0.00        | 0.00        | 0.00        | 25.00        | 6.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 8.20         | 0.00         | 0.00         | 0.00         | 6.80         | 1.80         | 6.00         | 28.50        | 0.00         | 58.80         | 126.80       | 84.20         | 63.10         |
| Poraiyahat         | 2008        | 0.00        | 0.00        | 0.00        | 12.80        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 10.20        | 0.00         | 0.00         | 0.00         | 2.00         | 5.00         | 4.00         | 7.00         | 2.00         | 29.60         | 56.50        | 56.50         | 53.60         |
| Sunderpahari       | 2008        | 0.00        | 0.00        | 0.00        | 31.80        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 9.40         | 0.00         | 0.00         | 0.00         | 0.00         | 20.00        | 7.00         | 75.40        | 0.00         | 10.00         | 41.20        | 91.00         | 39.50         |
| <b>Weighted RF</b> | <b>2008</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>17.52</b> | <b>1.65</b> | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>9.64</b> | <b>0.00</b>  | <b>0.27</b>  | <b>0.00</b>  | <b>3.15</b>  | <b>5.99</b>  | <b>4.62</b>  | <b>24.01</b> | <b>0.83</b>  | <b>38.44</b> | <b>56.58</b>  | <b>75.10</b> | <b>53.12</b>  |               |

|              |      |       |       |      |      |      |      |       |      |      |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |       |        |        |       |
|--------------|------|-------|-------|------|------|------|------|-------|------|------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|--------|-------|
| Barahat      | 2009 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 16.10 | 0.00  | 30.40 | 0.00   | 0.00  | 0.00  | 0.00   | 0.00   |       |
| Dhoriya      | 2009 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 18.80  | 0.00  | 0.00  | 0.00   | 1.40   |       |
| Godda        | 2009 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 6.20  | 61.00 | 4.20  | 115.50 | 33.40 | 0.00  | 0.00   | 5.00   |       |
| Pathargama   | 2009 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 8.40  | 20.20 | 40.60 | 23.00  | 18.60 | 0.00  | 0.00   | 95.80  |       |
| Poraiyahat   | 2009 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 3.50  | 52.20 | 0.00  | 56.00  | 6.00  | 0.00  | 9.00   | 2.50   | 10.50 |
| Sunderpahari | 2009 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 13.20 | 15.20 | 138.40 | 46.00 | 28.20 | 3.00   | 0.00   | 18.20 |
| Weighted RF  | 2009 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 2.91  | 40.51 | 4.36  | 79.17  | 18.94 | 5.48  | 4.24   | 1.04   | 13.70 |
| Barahat      | 2010 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00  | 0.00  | 4.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 8.00  | 4.00   | 0.00  | 9.00  | 8.00   | 2.00   |       |
| Dhoriya      | 2010 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00  | 0.00  | 4.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 8.00  | 4.00   | 0.00  | 9.00  | 8.00   | 2.00   |       |
| Godda        | 2010 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 5.40  | 0.00 | 0.00 | 0.00 | 30.00 | 0.00 | 0.00  | 0.00  | 0.00  | 2.40  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00  | 0.00  | 19.60  | 109.40 | 76.00 |
| Pathargama   | 2010 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 10.40 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00  | 0.00  | 0.80   | 6.40   | 72.60 |
| Poraiyahat   | 2010 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 2.00  | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00  | 0.00  | 11.40  | 93.10  | 44.70 |
| Sunderpahari | 2010 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00  | 0.00  | 0.80   | 6.40   | 72.60 |
| Weighted RF  | 2010 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 2.10  | 0.00 | 0.00 | 0.00 | 18.00 | 0.00 | 0.00  | 0.43  | 0.00  | 1.13  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 1.13   | 0.57  | 0.00  | 10.77  | 66.78  | 51.79 |
| Barahat      | 2011 | 0.00  | 0.00  | 2.40 | 0.00 | 0.00 | 0.00 | 8.60  | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 3.20  | 0.00  | 0.00  | 14.60 | 0.00  | 2.80  | 18.60 | 38.40 | 25.20 | 14.40 | 4.20   | 63.60 | 68.00 | 82.20  |        |       |
| Dhoriya      | 2011 | 0.00  | 0.00  | 2.40 | 0.00 | 0.00 | 0.00 | 8.60  | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 3.20  | 0.00  | 0.00  | 14.60 | 0.00  | 2.80  | 18.60 | 38.40 | 25.20 | 14.40 | 4.20   | 63.60 | 68.00 | 82.20  |        |       |
| Godda        | 2011 | 0.00  | 0.00  | 2.60 | 0.00 | 0.00 | 0.00 | 3.40  | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 9.40  | 0.00  | 10.40 | 43.40 | 0.00  | 23.80 | 1.60  | 55.40 | 26.80 | 24.80 | 2.20   | 76.40 | 74.60 | 97.40  |        |       |
| Pathargama   | 2011 | 0.00  | 0.00  | 2.40 | 0.00 | 0.00 | 0.00 | 8.60  | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 3.20  | 0.00  | 0.00  | 14.60 | 0.00  | 2.80  | 18.60 | 38.40 | 25.20 | 14.40 | 4.20   | 63.60 | 68.00 | 82.20  |        |       |
| Poraiyahat   | 2011 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 1.20  | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 21.00 | 0.00  | 5.00  | 11.00 | 0.00  | 4.00  | 0.00  | 18.00 | 0.00  | 7.00  | 8.00   | 21.00 | 87.10 | 93.00  |        |       |
| Sunderpahari | 2011 | 0.00  | 0.00  | 2.40 | 0.00 | 0.00 | 0.00 | 8.60  | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 3.20  | 0.00  | 0.00  | 14.60 | 0.00  | 2.80  | 18.60 | 38.40 | 25.20 | 14.40 | 4.20   | 63.60 | 68.00 | 82.20  |        |       |
| Weighted RF  | 2011 | 0.00  | 0.00  | 1.45 | 0.00 | 0.00 | 0.00 | 4.31  | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 12.05 | 0.00  | 4.51  | 19.84 | 0.00  | 8.21  | 6.89  | 33.89 | 15.09 | 13.76 | 5.31   | 48.88 | 77.49 | 90.25  |        |       |
| Barahat      | 2012 | 19.00 | 13.20 | 7.00 | 0.00 | 0.00 | 0.00 | 15.60 | 0.00 | 0.00 | 0.00 | 3.00  | 0.00 | 26.60 | 10.20 | 16.80 | 0.00  | 0.00  | 1.80  | 10.60 | 0.00  | 8.00  | 0.00  | 0.00   | 0.00  | 0.00  | 48.10  | 4.40   |       |
| Dhoriya      | 2012 | 19.00 | 13.20 | 7.00 | 0.00 | 0.00 | 0.00 | 15.60 | 0.00 | 0.00 | 0.00 | 3.00  | 0.00 | 26.60 | 10.20 | 16.80 | 0.00  | 0.00  | 1.80  | 10.60 | 0.00  | 8.00  | 0.00  | 0.00   | 0.00  | 0.00  | 48.10  | 4.40   |       |
| Godda        | 2012 | 6.20  | 0.00  | 3.40 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | 2.00  | 0.00 | 0.00  | 3.00  | 15.20 | 0.00  | 0.00  | 6.40  | 9.20  | 0.00  | 0.00  | 0.00  | 10.80  | 0.00  | 24.60 | 20.60  |        |       |
| Pathargama   | 2012 | 9.00  | 0.00  | 2.80 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | 5.00  | 0.00 | 0.60  | 3.60  | 2.20  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 4.00  | 0.00  | 31.20  | 18.00 | 91.60 | 18.00  |        |       |
| Poraiyahat   | 2012 | 8.00  | 0.00  | 3.20 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | 7.00  | 0.00 | 0.00  | 5.00  | 6.00  | 0.00  | 0.00  | 0.00  | 14.00 | 0.00  | 0.00  | 0.00  | 5.00   | 16.00 | 45.00 | 12.00  |        |       |
| Sunderpahari | 2012 | 4.00  | 0.00  | 3.70 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | 2.00  | 0.00 | 0.00  | 8.20  | 20.20 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 22.30  | 0.00  | 47.00 | 39.00  |        |       |
| Weighted RF  | 2012 | 8.51  | 1.87  | 3.85 | 0.00 | 0.00 | 0.00 | 2.21  | 0.00 | 0.00 | 0.00 | 4.35  | 0.00 | 3.79  | 5.74  | 11.89 | 0.00  | 0.00  | 1.75  | 9.48  | 0.00  | 1.30  | 0.00  | 9.63   | 7.41  | 42.94 | 17.69  |        |       |
| Barahat      | 2013 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 19.80 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00  | 0.00  | 6.50  | 9.80  | 0.00  | 0.00  | 0.00  | 0.00  | 29.60 | 40.40  | 38.60 | 29.60 | 75.70  |        |       |
| Dhoriya      | 2013 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 19.80 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00  | 0.00  | 6.50  | 9.80  | 0.00  | 0.00  | 0.00  | 0.00  | 29.60 | 40.40  | 38.60 | 29.60 | 75.70  |        |       |
| Godda        | 2013 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 12.00 | 0.00 | 0.00 | 0.00 | 2.00  | 0.00 | 0.00  | 0.00  | 2.00  | 25.60 | 15.00 | 0.00  | 0.00  | 26.40 | 17.40 | 47.40 | 31.80  | 30.40 | 34.60 | 118.80 |        |       |
| Pathargama   | 2013 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 20.20 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00  | 4.00  | 17.20 | 9.00  | 0.00  | 0.00  | 50.00 | 18.20 | 42.40 | 8.00   | 16.20 | 15.40 | 53.20  |        |       |
| Poraiyahat   | 2013 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 4.00  | 0.00 | 0.00 | 0.00 | 3.00  | 0.00 | 0.00  | 0.00  | 0.00  | 13.80 | 5.00  | 0.00  | 15.00 | 0.00  | 15.00 | 46.00 | 2.00   | 21.00 | 16.00 | 27.00  |        |       |
| Sunderpahari | 2013 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 8.20  | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00  | 2.00  | 27.20 | 15.60 | 0.00  | 36.00 | 2.00  | 4.20  | 42.40 | 8.00   | 16.20 | 15.40 | 53.20  |        |       |
| Weighted RF  | 2013 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 9.49  | 0.00 | 0.00 | 0.00 | 1.72  | 0.00 | 0.00  | 0.00  | 0.97  | 17.90 | 9.95  | 0.00  | 12.24 | 8.60  | 11.77 | 43.25 | 15.66  | 24.69 | 22.15 | 60.84  |        |       |

ANNEXURE - VII/2

**WITHDRAWAL POINT IN CHIR RIVER**  
COMPUTATION OF WEEKLY WEIGHTED RAINFALL IN MM

| Weighted areas of RG Stations |      |                                 |           |           | Barahat   | 14910     | Dhoriya   | 2273      | Godda     | 28383     | Pathargama | 5063      | Poriyahat | 50446     | Sunderpahari | 20225     |           |           |           |           |           |           |           |           |           |           |           |       |
|-------------------------------|------|---------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
|                               |      | TOTAL WEIGHTED AREA = 121300 Ha |           |           |           |           |           |           |           |           |            |           |           |           |              |           |           |           |           |           |           |           |           |           |           |           |           |       |
| Station name                  | Year | 27th Week                       | 28th Week | 29th Week | 30th Week | 31st Week | 32nd Week | 33rd Week | 34th Week | 35th Week | 36th Week  | 37th Week | 38th Week | 39th Week | 40th Week    | 41st Week | 42nd Week | 43rd Week | 44th Week | 45th Week | 46th Week | 47th Week | 48th Week | 49th Week | 50th Week | 51st Week | 52nd Week |       |
| Barahat                       | 1992 | 33.40                           | 188.40    | 50.60     | 24.10     | 72.40     | 86.20     | 16.40     | 25.40     | 3.00      | 1.80       | 0.00      | 0.00      | 116.20    | 13.80        | 4.60      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Dhoriya                       | 1992 | 37.00                           | 92.50     | 50.50     | 25.50     | 25.10     | 56.00     | 3.50      | 8.00      | 25.00     | 1.50       | 14.00     | 0.00      | 24.50     | 0.00         | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Godda                         | 1992 | 39.00                           | 245.20    | 184.60    | 53.80     | 26.80     | 104.60    | 54.80     | 28.60     | 78.80     | 0.00       | 9.20      | 0.00      | 364.60    | 6.40         | 122.90    | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Pathargama                    | 1992 | 46.20                           | 133.80    | 187.40    | 41.00     | 15.40     | 67.10     | 12.20     | 40.20     | 8.40      | 0.00       | 46.00     | 0.00      | 206.00    | 0.00         | 95.20     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Poraiyahat                    | 1992 | 20.00                           | 180.40    | 184.40    | 31.00     | 25.80     | 90.80     | 25.00     | 34.60     | 13.00     | 0.00       | 0.00      | 0.00      | 161.80    | 0.00         | 1.40      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Sunderpahari                  | 1992 | 38.80                           | 175.60    | 126.00    | 97.40     | 15.80     | 86.60     | 96.60     | 104.40    | 29.40     | 0.00       | 14.00     | 0.00      | 252.00    | 97.00        | 46.40     | 3.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Weighted RF                   | 1992 | 30.64                           | 192.15    | 155.88    | 46.87     | 29.65     | 91.12     | 41.92     | 43.44     | 29.93     | 0.25       | 6.67      | 0.00      | 217.96    | 19.37        | 41.62     | 0.50      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Barahat                       | 1993 | 12.10                           | 22.30     | 71.50     | 76.20     | 7.60      | 149.90    | 30.60     | 130.20    | 74.00     | 36.50      | 38.60     | 6.10      | 35.40     | 8.40         | 25.40     | 9.20      | 0.00      | 36.80     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Dhoriya                       | 1993 | 12.10                           | 22.30     | 71.50     | 76.20     | 7.60      | 149.90    | 30.60     | 130.20    | 74.00     | 36.50      | 38.60     | 6.10      | 35.40     | 8.40         | 25.40     | 9.20      | 0.00      | 36.80     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Godda                         | 1993 | 84.10                           | 68.40     | 130.80    | 138.40    | 30.20     | 158.30    | 37.80     | 303.60    | 108.80    | 89.60      | 68.20     | 31.00     | 74.60     | 29.00        | 0.00      | 29.00     | 0.00      | 27.60     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Pathargama                    | 1993 | 7.40                            | 33.40     | 30.80     | 63.20     | 2.00      | 39.80     | 33.00     | 253.60    | 48.00     | 137.00     | 33.20     | 4.60      | 96.20     | 3.40         | 0.00      | 50.60     | 0.00      | 12.20     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Poraiyahat                    | 1993 | 9.00                            | 18.20     | 39.60     | 76.40     | 3.00      | 57.80     | 27.20     | 133.00    | 75.20     | 35.20      | 29.40     | 0.00      | 84.20     | 6.60         | 0.00      | 12.60     | 0.00      | 7.60      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Sunderpahari                  | 1993 | 38.40                           | 93.60     | 83.40     | 113.00    | 11.60     | 107.40    | 0.00      | 235.40    | 65.00     | 57.80      | 71.60     | 14.40     | 88.20     | 33.00        | 0.00      | 18.00     | 0.00      | 5.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Weighted RF                   | 1993 | 31.85                           | 43.73     | 72.39     | 96.43     | 11.41     | 101.88    | 25.87     | 194.63    | 80.06     | 56.13      | 46.98     | 10.71     | 76.21     | 16.36        | 3.60      | 18.44     | 0.00      | 16.17     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Barahat                       | 1994 | 20.60                           | 0.00      | 7.00      | 62.60     | 87.60     | 15.20     | 100.80    | 28.00     | 9.80      | 0.00       | 49.00     | 13.20     | 0.00      | 33.10        | 89.40     | 0.00      | 0.00      | 6.40      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Dhoriya                       | 1994 | 20.60                           | 0.00      | 7.00      | 62.60     | 87.60     | 15.20     | 100.80    | 28.00     | 9.80      | 0.00       | 49.00     | 13.20     | 0.00      | 33.10        | 89.40     | 0.00      | 0.00      | 6.40      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Godda                         | 1994 | 25.00                           | 8.60      | 20.60     | 181.60    | 127.00    | 3.40      | 237.80    | 70.80     | 23.20     | 5.40       | 57.80     | 16.40     | 0.00      | 17.20        | 165.80    | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Pathargama                    | 1994 | 20.60                           | 0.00      | 2.40      | 89.60     | 55.00     | 9.80      | 73.00     | 61.60     | 13.20     | 0.00       | 98.40     | 7.60      | 0.00      | 0.00         | 65.30     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Poraiyahat                    | 1994 | 15.20                           | 8.80      | 14.60     | 58.00     | 65.40     | 17.20     | 59.60     | 50.40     | 6.00      | 9.00       | 42.20     | 22.00     | 0.00      | 23.00        | 61.60     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Sunderpahari                  | 1994 | 19.60                           | 7.00      | 35.40     | 30.20     | 61.60     | 31.80     | 101.30    | 48.00     | 30.00     | 4.80       | 39.20     | 4.10      | 0.00      | 50.80        | 62.80     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Weighted RF                   | 1994 | 19.22                           | 6.84      | 17.89     | 84.26     | 81.89     | 15.81     | 114.65    | 52.07     | 14.87     | 5.81       | 48.66     | 15.86     | 0.00      | 26.75        | 90.27     | 0.00      | 0.00      | 0.91      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Barahat                       | 1995 | 37.00                           | 105.80    | 48.00     | 0.00      | 40.00     | 86.00     | 165.20    | 24.40     | 5.00      | 5.20       | 0.00      | 92.60     | 229.00    | 0.00         | 0.00      | 50.00     | 0.00      | 0.00      | 5.50      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 12.80 |
| Dhoriya                       | 1995 | 37.00                           | 105.80    | 48.00     | 0.00      | 40.00     | 86.00     | 165.20    | 24.40     | 5.00      | 5.20       | 0.00      | 92.60     | 229.00    | 0.00         | 0.00      | 50.00     | 0.00      | 0.00      | 5.50      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 12.80 |
| Godda                         | 1995 | 187.40                          | 342.40    | 74.90     | 58.00     | 160.00    | 136.80    | 177.60    | 24.40     | 20.80     | 83.40      | 11.40     | 116.00    | 432.40    | 0.00         | 0.00      | 40.00     | 5.40      | 0.00      | 140.00    | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 26.20 |
| Pathargama                    | 1995 | 35.00                           | 123.00    | 16.60     | 12.80     | 26.80     | 53.40     | 91.20     | 0.00      | 15.80     | 65.40      | 0.00      | 103.40    | 203.80    | 0.00         | 2.00      | 3.60      | 2.60      | 0.00      | 40.60     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 1.20      | 15.40 |
| Poraiyahat                    | 1995 | 57.40                           | 101.60    | 31.00     | 23.00     | 60.40     | 69.00     | 27.00     | 4.00      | 6.00      | 54.80      | 24.00     | 99.00     | 154.20    | 12.80        | 4.40      | 4.80      | 0.00      | 16.00     | 68.00     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 1.00      | 3.80  |
| Sunderpahari                  | 1995 | 132.60                          | 256.20    | 101.60    | 66.00     | 44.50     | 40.00     | 175.00    | 0.00      | 11.00     | 47.00      | 52.00     | 168.40    | 371.00    | 0.00         | 4.00      | 18.00     | 0.00      | 0.00      | 116.00    | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 7.80  |
| Weighted RF                   | 1995 | 96.53                           | 185.21    | 54.85     | 34.68     | 76.76     | 81.79     | 109.17    | 10.83     | 10.56     | 53.61      | 21.32     | 113.83    | 268.11    | 5.32         | 2.58      | 21.59     | 1.37      | 6.65      | 82.85     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.47      | 11.47 |
| Barahat                       | 1996 | 4.00                            | 82.80     | 18.20     | 4.80      | 44.70     | 105.60    | 96.60     | 61.20     | 57.60     | 47.20      | 55.00     | 54.00     | 16.00     | 105.60       | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Dhoriya                       | 1996 | 4.00                            | 82.80     | 18.20     | 4.80      | 44.70     | 105.60    | 96.60     | 61.20     | 57.60     | 47.20      | 55.00     | 54.00     | 16.00     | 105.60       | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Godda                         | 1996 | 27.60                           | 62.30     | 6.20      | 4.60      | 70.40     | 67.90     | 72.50     | 108.00    | 88.80     | 23.00      | 31.80     | 18.80     | 52.00     | 112.40       | 0.00      | 0.00      | 0.00      | 10.80     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Pathargama                    | 1996 | 15.00                           | 19.20     | 17.00     | 8.20      | 44.20     | 22.20     | 56.40     | 104.20    | 26.40     | 8.20       | 25.60     | 70.00     | 50.40     | 72.20        | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Poraiyahat                    | 1996 | 15.00                           | 19.20     | 17.00     | 8.20      | 44.20     | 22.20     | 56.40     | 104.20    | 26.40     | 8.20       | 25.60     | 70.00     | 50.40     | 72.20        | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Sunderpahari                  | 1996 | 61.00                           | 53.20     | 0.00      | 21.00     | 33.00     | 81.00     | 128.60    | 114.50    | 102.00    | 62.70      | 45.00     | 26.00     | 38.60     | 69.60        | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Weighted RF                   | 1996 | 24.06                           | 43.96     | 11.81     | 9.01      | 48.53     | 54.51     | 77.90     | 100.72    | 58.03     | 26.27      | 34.45     | 48.42     | 43.93     | 85.90        | 0.00      | 0.00      | 0.00      | 2.53      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |

|                    |             |               |               |               |               |              |              |               |               |               |               |               |               |               |               |             |               |              |             |              |              |             |             |             |              |             |             |
|--------------------|-------------|---------------|---------------|---------------|---------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------|---------------|--------------|-------------|--------------|--------------|-------------|-------------|-------------|--------------|-------------|-------------|
| Barahat            | 1997        | 43.00         | 141.00        | 61.60         | 26.20         | 10.60        | 6.20         | 135.20        | 12.00         | 68.20         | 0.00          | 23.40         | 15.40         | 54.60         | 11.00         | 0.00        | 0.00          | 0.00         | 0.00        | 0.00         | 37.00        | 0.00        | 0.00        | 0.00        | 17.00        | 0.00        | 0.00        |
| Dhoriya            | 1997        | 43.00         | 141.00        | 61.60         | 26.20         | 10.60        | 6.20         | 135.20        | 12.00         | 68.20         | 0.00          | 23.40         | 15.40         | 54.60         | 11.00         | 0.00        | 0.00          | 0.00         | 0.00        | 0.00         | 37.00        | 0.00        | 0.00        | 0.00        | 17.00        | 0.00        | 0.00        |
| Godda              | 1997        | 125.60        | 418.80        | 120.80        | 81.30         | 96.50        | 6.80         | 102.60        | 25.20         | 140.40        | 20.30         | 31.60         | 33.20         | 54.20         | 0.00          | 0.00        | 0.00          | 20.00        | 0.00        | 41.20        | 21.00        | 0.00        | 8.00        | 0.00        | 39.20        | 0.00        | 0.00        |
| Pathargama         | 1997        | 83.20         | 224.30        | 71.60         | 32.20         | 74.20        | 11.50        | 82.60         | 25.40         | 86.80         | 8.40          | 126.60        | 8.40          | 5.00          | 0.00          | 0.00        | 0.00          | 0.00         | 0.00        | 0.00         | 17.00        | 0.00        | 0.00        | 0.00        | 31.00        | 0.00        | 0.00        |
| Poraiyahat         | 1997        | 125.60        | 418.80        | 120.80        | 81.30         | 96.50        | 6.80         | 102.60        | 25.20         | 140.40        | 20.30         | 31.60         | 33.20         | 54.20         | 0.00          | 0.00        | 0.00          | 20.00        | 0.00        | 41.20        | 21.00        | 0.00        | 8.00        | 0.00        | 39.20        | 0.00        | 0.00        |
| Sunderpahari       | 1997        | 120.00        | 254.00        | 143.00        | 21.00         | 87.00        | 24.00        | 95.00         | 10.00         | 179.00        | 18.00         | 22.00         | 24.00         | 7.00          | 0.00          | 10.00       | 0.00          | 10.00        | 6.00        | 10.60        | 42.00        | 0.00        | 0.00        | 0.00        | 26.00        | 0.00        | 0.00        |
| <b>Weighted RF</b> | <b>1997</b> | <b>111.20</b> | <b>343.85</b> | <b>114.06</b> | <b>61.39</b>  | <b>81.82</b> | <b>9.78</b>  | <b>105.12</b> | <b>20.80</b>  | <b>134.37</b> | <b>16.54</b>  | <b>32.80</b>  | <b>28.11</b>  | <b>44.33</b>  | <b>1.56</b>   | <b>1.67</b> | <b>0.00</b>   | <b>14.66</b> | <b>1.00</b> | <b>28.54</b> | <b>26.60</b> | <b>0.00</b> | <b>5.20</b> | <b>0.00</b> | <b>33.51</b> | <b>0.00</b> | <b>0.00</b> |
| Barahat            | 1998        | 58.00         | 245.40        | 78.60         | 2.60          | 59.00        | 64.60        | 81.80         | 33.00         | 36.00         | 141.40        | 18.00         | 2.60          | 27.00         | 25.00         | 0.00        | 50.20         | 4.60         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Dhoriya            | 1998        | 58.00         | 245.40        | 78.60         | 2.60          | 59.00        | 64.60        | 81.80         | 33.00         | 36.00         | 141.40        | 18.00         | 2.60          | 27.00         | 25.00         | 0.00        | 50.20         | 4.60         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Godda              | 1998        | 113.40        | 143.40        | 105.80        | 0.00          | 39.60        | 25.40        | 210.30        | 46.60         | 67.80         | 215.80        | 41.00         | 61.00         | 59.20         | 37.40         | 2.00        | 79.00         | 0.00         | 4.00        | 27.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Pathargama         | 1998        | 20.00         | 194.00        | 128.40        | 8.40          | 42.10        | 49.20        | 150.40        | 15.00         | 23.30         | 198.20        | 12.80         | 12.30         | 40.00         | 17.50         | 0.00        | 0.00          | 0.00         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Poraiyahat         | 1998        | 113.40        | 143.40        | 105.80        | 0.00          | 39.60        | 25.40        | 210.30        | 46.60         | 67.80         | 215.80        | 41.00         | 61.00         | 59.20         | 37.40         | 2.00        | 79.00         | 0.00         | 4.00        | 27.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Sunderpahari       | 1998        | 76.80         | 186.80        | 153.00        | 0.00          | 20.60        | 52.00        | 128.80        | 30.40         | 24.60         | 112.00        | 53.00         | 21.00         | 89.00         | 141.60        | 2.00        | 32.00         | 8.00         | 18.00       | 22.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| <b>Weighted RF</b> | <b>1998</b> | <b>95.55</b>  | <b>167.20</b> | <b>110.76</b> | <b>0.72</b>   | <b>39.28</b> | <b>36.38</b> | <b>176.01</b> | <b>40.65</b>  | <b>54.23</b>  | <b>187.22</b> | <b>38.57</b>  | <b>44.03</b>  | <b>58.81</b>  | <b>52.19</b>  | <b>1.63</b> | <b>63.79</b>  | <b>1.99</b>  | <b>5.60</b> | <b>21.21</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> |
| Barahat            | 1999        | 32.40         | 107.80        | 40.40         | 55.30         | 8.00         | 32.00        | 119.00        | 98.50         | 142.50        | 0.00          | 159.00        | 30.00         | 144.00        | 38.50         | 0.00        | 157.00        | 0.00         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Dhoriya            | 1999        | 5.60          | 268.20        | 62.40         | 5.40          | 8.00         | 32.00        | 119.00        | 98.50         | 142.50        | 0.00          | 159.00        | 30.00         | 144.00        | 38.50         | 0.00        | 157.00        | 0.00         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Godda              | 1999        | 19.00         | 283.80        | 93.00         | 147.00        | 34.00        | 71.20        | 96.20         | 139.60        | 79.40         | 4.40          | 160.80        | 52.00         | 410.20        | 46.00         | 0.00        | 213.40        | 3.40         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Pathargama         | 1999        | 46.00         | 8.00          | 13.60         | 55.80         | 28.00        | 69.10        | 91.60         | 138.20        | 65.00         | 41.00         | 381.60        | 30.00         | 166.80        | 67.20         | 0.00        | 172.00        | 0.00         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Poraiyahat         | 1999        | 19.00         | 283.80        | 93.00         | 147.00        | 34.00        | 71.20        | 96.20         | 139.60        | 79.40         | 4.40          | 160.80        | 52.00         | 410.20        | 46.00         | 0.00        | 213.40        | 3.40         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Sunderpahari       | 1999        | 47.00         | 106.80        | 36.20         | 94.20         | 81.20        | 71.40        | 78.00         | 94.00         | 100.00        | 9.00          | 143.80        | 146.00        | 396.00        | 79.00         | 0.00        | 165.00        | 0.00         | 25.00       | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| <b>Weighted RF</b> | <b>1999</b> | <b>26.19</b>  | <b>220.85</b> | <b>73.18</b>  | <b>120.46</b> | <b>37.94</b> | <b>65.59</b> | <b>96.20</b>  | <b>126.12</b> | <b>91.17</b>  | <b>6.07</b>   | <b>166.93</b> | <b>63.64</b>  | <b>359.96</b> | <b>51.32</b>  | <b>0.00</b> | <b>195.61</b> | <b>2.21</b>  | <b>4.17</b> | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> |
| Barahat            | 2000        | 0.00          | 62.00         | 188.00        | 88.00         | 16.00        | 36.20        | 37.00         | 0.00          | 131.40        | 14.00         | 0.00          | 627.20        | 63.20         | 0.00          | 0.00        | 0.00          | 0.00         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Dhoriya            | 2000        | 0.00          | 62.00         | 188.00        | 88.00         | 16.00        | 36.20        | 37.00         | 0.00          | 131.40        | 14.00         | 0.00          | 627.20        | 63.20         | 0.00          | 0.00        | 0.00          | 0.00         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Godda              | 2000        | 0.00          | 62.00         | 188.00        | 88.00         | 16.00        | 36.20        | 37.00         | 0.00          | 131.40        | 14.00         | 0.00          | 627.20        | 63.20         | 0.00          | 0.00        | 0.00          | 0.00         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Pathargama         | 2000        | 0.00          | 62.00         | 188.00        | 88.00         | 16.00        | 36.20        | 37.00         | 0.00          | 131.40        | 14.00         | 0.00          | 627.20        | 63.20         | 0.00          | 0.00        | 0.00          | 0.00         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Poraiyahat         | 2000        | 0.00          | 62.00         | 188.00        | 88.00         | 16.00        | 36.20        | 37.00         | 0.00          | 131.40        | 14.00         | 0.00          | 627.20        | 63.20         | 0.00          | 0.00        | 0.00          | 0.00         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Sunderpahari       | 2000        | 0.00          | 62.00         | 188.00        | 88.00         | 16.00        | 36.20        | 37.00         | 0.00          | 131.40        | 14.00         | 0.00          | 627.20        | 63.20         | 0.00          | 0.00        | 0.00          | 0.00         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| <b>Weighted RF</b> | <b>2000</b> | <b>0.00</b>   | <b>62.00</b>  | <b>188.00</b> | <b>88.00</b>  | <b>16.00</b> | <b>36.20</b> | <b>37.00</b>  | <b>0.00</b>   | <b>131.40</b> | <b>14.00</b>  | <b>0.00</b>   | <b>627.20</b> | <b>63.20</b>  | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> |
| Barahat            | 2001        | 17.60         | 11.20         | 40.80         | 49.40         | 56.40        | 0.00         | 34.20         | 18.00         | 131.50        | 158.60        | 67.60         | 210.00        | 0.00          | 102.80        | 0.00        | 14.20         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Dhoriya            | 2001        | 17.60         | 11.20         | 40.80         | 49.40         | 56.40        | 0.00         | 34.20         | 18.00         | 131.50        | 158.60        | 67.60         | 210.00        | 0.00          | 102.80        | 0.00        | 14.20         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Godda              | 2001        | 17.00         | 19.00         | 20.30         | 82.00         | 65.30        | 20.00        | 5.30          | 93.50         | 86.90         | 136.20        | 19.00         | 10.00         | 15.80         | 181.00        | 9.00        | 17.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Pathargama         | 2001        | 17.00         | 19.00         | 20.30         | 82.00         | 65.30        | 20.00        | 5.30          | 93.50         | 86.90         | 136.20        | 19.00         | 10.00         | 15.80         | 181.00        | 9.00        | 17.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Poraiyahat         | 2001        | 17.00         | 19.00         | 20.30         | 82.00         | 65.30        | 20.00        | 5.30          | 93.50         | 86.90         | 136.20        | 19.00         | 10.00         | 15.80         | 181.00        | 9.00        | 17.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Sunderpahari       | 2001        | 17.00         | 19.00         | 20.30         | 82.00         | 65.30        | 20.00        | 5.30          | 93.50         | 86.90         | 136.20        | 19.00         | 10.00         | 15.80         | 181.00        | 9.00        | 17.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| <b>Weighted RF</b> | <b>2001</b> | <b>17.08</b>  | <b>17.90</b>  | <b>23.20</b>  | <b>77.38</b>  | <b>64.04</b> | <b>17.17</b> | <b>9.39</b>   | <b>82.80</b>  | <b>93.22</b>  | <b>139.37</b> | <b>25.88</b>  | <b>38.33</b>  | <b>13.56</b>  | <b>169.92</b> | <b>7.73</b> | <b>16.60</b>  | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> |
| Barahat            | 2002        | 214.00        | 4.60          | 132.00        | 7.00          | 0.00         | 137.00       | 173.00        | 36.00         | 18.00         | 13.00         | 97.00         | 93.00         | 244.60        | 13.40         | 0.00        | 0.00          | 0.00         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Dhoriya            | 2002        | 214.00        | 4.60          | 132.00        | 7.00          | 0.00         | 137.00       | 173.00        | 36.00         | 18.00         | 13.00         | 97.00         | 93.00         | 244.60        | 13.40         | 0.00        | 0.00          | 0.00         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Godda              | 2002        | 61.80         | 0.00          | 71.00         | 2.60          | 28.00        | 53.10        | 148.50        | 25.00         | 21.00         | 35.00         | 75.80         | 21.50         | 56.20         | 48.20         | 0.20        | 55.20         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Pathargama         | 2002        | 61.80         | 0.00          | 71.00         | 2.60          | 28.00        | 53.10        | 148.50        | 25.00         | 21.00         | 35.00         | 75.80         | 21.50         | 56.20         | 48.20         | 0.20        | 55.20         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Poraiyahat         | 2002        | 121.00        | 0.00          | 58.00         | 49.00         | 23.00        | 63.00        | 243.00        | 171.00        | 15.00         | 18.00         | 80.00         | 45.00         | 273.00        | 0.00          | 8.00        | 48.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| Sunderpahari       | 2002        | 54.00         | 11.50         | 75.00         | 29.50         | 15.40        | 40.50        | 184.00        | 52.00         | 21.00         | 35.00         | 75.80         | 21.50         | 93.00         | 14.00         | 32.50       | 92.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        |
| <b>Weighted RF</b> | <b>2002</b> | <b>106.68</b> | <b>2.57</b>   | <b>74.90</b>  | <b>27.01</b>  | <b>19.85</b> | <b>67.00</b> | <b>197.19</b> | <b>91.78</b>  | <b>18.08</b>  | <b>24.81</b>  | <b>80.55</b>  | <b>41.40</b>  | <b>179.19</b> | <b>17.52</b>  | <b>8.80</b> | <b>50.52</b>  | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> |             |

|              |      |               |               |               |              |              |              |              |              |              |              |              |               |               |               |               |              |              |              |              |             |             |             |             |             |             |
|--------------|------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Barahat      | 2003 | 3.20          | 96.80         | 0.00          | 96.00        | 75.60        | 10.40        | 58.70        | 49.00        | 31.10        | 39.00        | 26.30        | 3.00          | 54.50         | 30.00         | 116.30        | 5.30         | 57.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Dhoriya      | 2003 | 3.20          | 96.80         | 0.00          | 96.00        | 75.60        | 10.40        | 58.70        | 49.00        | 31.10        | 39.00        | 26.30        | 3.00          | 54.50         | 30.00         | 116.30        | 5.30         | 57.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Godda        | 2003 | 25.40         | 69.60         | 0.00          | 46.70        | 69.00        | 9.80         | 62.20        | 38.80        | 29.00        | 22.80        | 21.80        | 47.60         | 99.70         | 25.00         | 149.20        | 0.00         | 63.40        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Pathargama   | 2003 | 25.40         | 69.60         | 0.00          | 46.70        | 69.00        | 9.80         | 62.20        | 38.80        | 29.00        | 22.80        | 59.00        | 47.60         | 99.70         | 25.00         | 149.20        | 0.00         | 63.40        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Poraiyahat   | 2003 | 13.00         | 47.00         | 0.00          | 52.40        | 41.80        | 11.30        | 35.60        | 31.20        | 57.00        | 66.90        | 21.80        | 55.00         | 107.70        | 25.00         | 235.00        | 0.00         | 75.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Sunderpahari | 2003 | 25.40         | 69.60         | 0.00          | 46.70        | 69.00        | 9.80         | 62.20        | 42.00        | 48.20        | 84.50        | 59.00        | 4.00          | 164.90        | 67.00         | 64.40         | 12.00        | 0.00         | 2.40         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Weighted RF  | 2003 | <b>17.10</b>  | <b>64.05</b>  | <b>0.00</b>   | <b>56.05</b> | <b>58.62</b> | <b>10.51</b> | <b>50.64</b> | <b>37.62</b> | <b>44.14</b> | <b>53.72</b> | <b>30.19</b> | <b>37.09</b>  | <b>107.50</b> | <b>32.71</b>  | <b>166.08</b> | <b>2.75</b>  | <b>56.75</b> | <b>0.40</b>  | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |
| Barahat      | 2004 | 45.40         | 29.00         | 29.60         | 14.30        | 43.70        | 46.40        | 74.00        | 57.00        | 49.00        | 32.00        | 22.60        | 143.20        | 165.00        | 94.90         | 41.10         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Dhoriya      | 2004 | 45.40         | 29.00         | 29.60         | 14.30        | 43.70        | 46.40        | 74.00        | 57.00        | 49.00        | 32.00        | 22.60        | 143.20        | 165.00        | 164.40        | 12.20         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Godda        | 2004 | 71.40         | 46.60         | 47.40         | 15.60        | 23.20        | 40.90        | 0.00         | 25.00        | 50.00        | 0.00         | 19.00        | 85.20         | 4.40          | 127.80        | 64.40         | 0.00         | 0.00         | 2.40         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Pathargama   | 2004 | 71.40         | 46.60         | 47.40         | 15.60        | 23.20        | 40.90        | 0.00         | 25.00        | 50.00        | 0.00         | 19.00        | 85.20         | 4.40          | 127.80        | 64.40         | 0.00         | 0.00         | 2.40         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Poraiyahat   | 2004 | 83.00         | 22.00         | 145.00        | 5.20         | 111.20       | 30.20        | 14.00        | 58.00        | 16.20        | 69.40        | 53.00        | 154.40        | 100.60        | 232.00        | 35.60         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Sunderpahari | 2004 | 128.80        | 35.20         | 56.60         | 22.00        | 26.30        | 39.00        | 27.40        | 127.40       | 57.50        | 5.50         | 76.00        | 104.00        | 38.00         | 217.00        | 13.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Weighted RF  | 2004 | <b>82.11</b>  | <b>31.98</b>  | <b>87.00</b>  | <b>12.16</b> | <b>63.22</b> | <b>36.91</b> | <b>20.87</b> | <b>60.33</b> | <b>37.05</b> | <b>34.31</b> | <b>43.15</b> | <b>125.33</b> | <b>72.76</b>  | <b>182.65</b> | <b>40.01</b>  | <b>0.00</b>  | <b>0.00</b>  | <b>0.66</b>  | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |
| Barahat      | 2005 | 139.80        | 126.70        | 260.40        | 42.00        | 14.40        | 6.00         | 9.40         | 10.40        | 0.00         | 1.40         | 8.10         | 10.40         | 0.00          | 0.00          | 5.90          | 28.80        | 18.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Dhoriya      | 2005 | 22.00         | 252.00        | 86.00         | 12.50        | 0.00         | 192.00       | 2.00         | 44.20        | 0.00         | 1.40         | 8.10         | 10.40         | 0.00          | 0.00          | 5.90          | 28.80        | 18.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Godda        | 2005 | 82.40         | 81.60         | 63.60         | 23.00        | 14.40        | 6.00         | 9.40         | 10.40        | 0.00         | 1.40         | 8.10         | 10.40         | 0.00          | 0.00          | 5.90          | 28.80        | 18.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Pathargama   | 2005 | 82.40         | 81.60         | 63.60         | 23.00        | 14.40        | 6.00         | 9.40         | 10.40        | 0.00         | 1.40         | 8.10         | 10.40         | 0.00          | 0.00          | 5.90          | 28.80        | 18.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Poraiyahat   | 2005 | 82.40         | 81.60         | 63.60         | 23.00        | 14.40        | 6.00         | 9.40         | 10.40        | 0.00         | 1.40         | 8.10         | 10.40         | 0.00          | 0.00          | 5.90          | 28.80        | 18.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Sunderpahari | 2005 | 101.10        | 39.40         | 76.00         | 46.60        | 35.20        | 69.00        | 6.00         | 200.60       | 0.00         | 61.40        | 66.80        | 27.20         | 24.00         | 18.00         | 0.00          | 74.00        | 38.00        | 130.00       | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Weighted RF  | 2005 | <b>91.44</b>  | <b>83.30</b>  | <b>90.28</b>  | <b>29.07</b> | <b>17.60</b> | <b>19.99</b> | <b>8.69</b>  | <b>42.75</b> | <b>0.00</b>  | <b>11.40</b> | <b>17.89</b> | <b>13.20</b>  | <b>4.00</b>   | <b>3.00</b>   | <b>4.92</b>   | <b>36.34</b> | <b>21.33</b> | <b>21.68</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |
| Barahat      | 2006 | 32.40         | 283.30        | 10.10         | 45.80        | 65.50        | 178.80       | 106.60       | 15.50        | 23.70        | 68.00        | 17.20        | 224.70        | 134.10        | 4.00          | 0.00          | 0.00         | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Dhoriya      | 2006 | 41.90         | 176.50        | 9.90          | 34.50        | 97.00        | 83.40        | 0.00         | 7.80         | 66.00        | 10.50        | 38.50        | 154.00        | 163.00        | 3.00          | 0.00          | 0.00         | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Godda        | 2006 | 22.20         | 338.00        | 29.00         | 40.50        | 42.00        | 46.00        | 44.00        | 111.50       | 25.50        | 6.50         | 76.50        | 247.20        | 208.50        | 0.00          | 0.00          | 4.00         | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Pathargama   | 2006 | 22.20         | 338.00        | 29.00         | 40.50        | 42.00        | 46.00        | 44.00        | 111.50       | 25.50        | 6.50         | 76.50        | 247.20        | 208.50        | 0.00          | 0.00          | 4.00         | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Poraiyahat   | 2006 | 22.20         | 338.00        | 29.00         | 40.50        | 42.00        | 46.00        | 44.00        | 111.50       | 25.50        | 6.50         | 76.50        | 247.20        | 208.50        | 0.00          | 0.00          | 4.00         | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Sunderpahari | 2006 | 22.20         | 338.00        | 29.00         | 40.50        | 42.00        | 46.00        | 44.00        | 111.50       | 25.50        | 6.50         | 76.50        | 247.20        | 208.50        | 0.00          | 0.00          | 4.00         | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Weighted RF  | 2006 | <b>23.82</b>  | <b>328.25</b> | <b>26.32</b>  | <b>41.04</b> | <b>45.92</b> | <b>63.02</b> | <b>50.87</b> | <b>97.76</b> | <b>26.04</b> | <b>14.13</b> | <b>68.50</b> | <b>242.69</b> | <b>198.50</b> | <b>0.55</b>   | <b>0.00</b>   | <b>3.43</b>  | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |
| Barahat      | 2007 | 68.30         | 41.20         | 386.80        | 224.00       | 47.60        | 36.40        | 155.80       | 16.20        | 18.60        | 60.80        | 13.60        | 27.00         | 226.20        | 11.00         | 6.00          | 0.00         | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Dhoriya      | 2007 | 157.10        | 12.00         | 337.50        | 170.00       | 24.00        | 2.00         | 103.00       | 0.00         | 0.00         | 54.00        | 65.00        | 2.00          | 104.00        | 11.00         | 6.00          | 0.00         | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Godda        | 2007 | 43.10         | 90.60         | 338.60        | 99.00        | 42.50        | 27.40        | 64.00        | 0.00         | 30.60        | 106.40       | 41.00        | 23.80         | 206.00        | 17.60         | 19.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Pathargama   | 2007 | 43.10         | 90.60         | 338.60        | 99.00        | 42.50        | 27.40        | 64.00        | 0.00         | 30.60        | 106.40       | 41.00        | 23.80         | 206.00        | 17.60         | 19.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Poraiyahat   | 2007 | 102.40        | 111.00        | 94.20         | 36.60        | 7.00         | 60.60        | 47.20        | 10.00        | 24.00        | 4.60         | 30.00        | 48.00         | 76.00         | 7.00          | 1.60          | 78.00        | 33.00        | 43.00        | 25.60        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Sunderpahari | 2007 | 114.60        | 108.80        | 247.20        | 143.60       | 96.20        | 41.20        | 71.60        | 13.00        | 33.20        | 67.00        | 40.00        | 38.60         | 203.40        | 38.20         | 26.40         | 15.20        | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Weighted RF  | 2007 | <b>84.92</b>  | <b>94.57</b>  | <b>227.62</b> | <b>97.18</b> | <b>36.97</b> | <b>44.14</b> | <b>70.30</b> | <b>8.32</b>  | <b>26.24</b> | <b>50.91</b> | <b>33.34</b> | <b>36.32</b>  | <b>152.07</b> | <b>15.69</b>  | <b>11.16</b>  | <b>34.97</b> | <b>13.72</b> | <b>17.88</b> | <b>10.65</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |
| Barahat      | 2008 | 166.40        | 75.60         | 71.40         | 17.20        | 6.80         | 58.60        | 51.20        | 16.40        | 35.00        | 0.00         | 31.60        | 118.60        | 0.00          | 59.80         | 16.80         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Dhoriya      | 2008 | 159.00        | 10.50         | 13.00         | 5.50         | 1.00         | 26.00        | 2.50         | 7.00         | 0.00         | 0.00         | 10.00        | 5.00          | 9.00          | 5.00          | 40.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Godda        | 2008 | 80.10         | 60.20         | 63.20         | 78.80        | 5.40         | 113.00       | 54.40        | 30.00        | 4.00         | 35.60        | 43.00        | 86.40         | 51.20         | 14.60         | 21.00         | 97.40        | 78.00        | 48.20        | 62.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Pathargama   | 2008 | 91.20         | 127.60        | 96.40         | 42.00        | 7.00         | 52.40        | 29.40        | 38.00        | 24.80        | 31.40        | 35.20        | 37.80         | 129.60        | 31.40         | 13.20         | 47.80        | 89.40        | 52.20        | 56.40        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Poraiyahat   | 2008 | 102.40        | 111.00        | 94.20         | 36.60        | 7.00         | 60.60        | 47.20        | 10.00        | 24.00        | 4.60         | 30.00        | 48.00         | 76.00         | 7.00          | 1.60          | 78.00        | 33.00        | 43.00        | 25.60        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Sunderpahari | 2008 | 113.40        | 165.10        | 120.70        | 53.00        | 18.40        | 61.80        | 30.20        | 21.40        | 70.30        | 0.00         | 47.40        | 54.80         | 174.20        | 0.00          | 0.00          | 102.20       | 65.20        | 109.00       | 18.20        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Weighted RF  | 2008 | <b>107.48</b> | <b>102.59</b> | <b>87.13</b>  | <b>46.47</b> | <b>8.39</b>  | <b>71.82</b> | <b>44.96</b> | <b>18.48</b> | <b>27.98</b> | <b>11.55</b> | <b>35.98</b> | <b>65.57</b>  | <b>78.21</b>  | <b>15.08</b>  | <b>8.94</b>   | <b>74.26</b> | <b>46.58</b> | <b>49.51</b> | <b>30.54</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

|                     |             |              |              |               |              |              |               |              |              |               |               |              |               |              |              |               |               |              |              |              |             |             |             |             |             |             |             |
|---------------------|-------------|--------------|--------------|---------------|--------------|--------------|---------------|--------------|--------------|---------------|---------------|--------------|---------------|--------------|--------------|---------------|---------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Barahat</b>      | <b>2009</b> | 66.00        | 54.00        | 41.00         | 49.00        | 29.00        | 12.50         | 129.00       | 15.00        | 55.00         | 108.50        | 68.00        | 6.50          | 0.00         | 17.50        | 90.00         | 0.00          | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Dhoriya</b>      | <b>2009</b> | 1.50         | 0.00         | 2.00          | 73.40        | 29.00        | 12.50         | 129.00       | 15.00        | 55.00         | 49.00         | 65.50        | 4.50          | 0.00         | 17.30        | 35.20         | 0.00          | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Godda</b>        | <b>2009</b> | 41.40        | 35.20        | 71.00         | 82.40        | 22.00        | 87.80         | 126.40       | 5.80         | 97.60         | 85.20         | 135.40       | 7.00          | 2.80         | 25.00        | 71.20         | 0.00          | 0.00         | 0.00         | 0.00         | 6.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Pathargama</b>   | <b>2009</b> | 18.60        | 29.40        | 90.80         | 156.00       | 15.20        | 54.00         | 196.40       | 33.80        | 54.00         | 92.70         | 117.60       | 0.00          | 26.00        | 35.40        | 75.20         | 0.00          | 0.00         | 0.00         | 0.00         | 6.80        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Poraiyahat</b>   | <b>2009</b> | 18.60        | 47.40        | 52.00         | 8.00         | 11.60        | 18.00         | 18.20        | 14.40        | 15.20         | 146.20        | 11.00        | 8.20          | 7.00         | 60.00        | 51.20         | 0.00          | 0.00         | 0.00         | 0.00         | 5.20        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Sunderpahari</b> | <b>2009</b> | 44.20        | 58.40        | 88.40         | 59.20        | 42.40        | 6.80          | 91.00        | 19.20        | 66.00         | 138.00        | 35.20        | 27.00         | 10.00        | 68.00        | 68.00         | 0.00          | 0.00         | 0.00         | 0.00         | 7.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Weighted RF</b>  | <b>2009</b> | <b>33.71</b> | <b>45.55</b> | <b>61.85</b>  | <b>46.39</b> | <b>21.78</b> | <b>33.19</b>  | <b>78.79</b> | <b>14.08</b> | <b>50.21</b>  | <b>121.87</b> | <b>56.62</b> | <b>10.43</b>  | <b>6.32</b>  | <b>46.09</b> | <b>64.15</b>  | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b>  | <b>5.02</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |
| <b>Barahat</b>      | <b>2010</b> | 0.00         | 59.00        | 8.00          | 7.00         | 17.00        | 8.00          | 32.00        | 42.00        | 0.00          | 8.00          | 94.60        | 3.00          | 0.00         | 0.00         | 4.00          | 0.00          | 3.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Dhoriya</b>      | <b>2010</b> | 0.00         | 59.00        | 8.00          | 7.00         | 17.00        | 8.00          | 32.00        | 42.00        | 0.00          | 8.00          | 94.60        | 3.00          | 0.00         | 0.00         | 4.00          | 0.00          | 3.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Godda</b>        | <b>2010</b> | 7.80         | 114.20       | 11.60         | 15.20        | 58.60        | 57.60         | 71.20        | 103.60       | 0.00          | 6.00          | 65.40        | 28.40         | 0.00         | 0.00         | 4.20          | 0.00          | 5.20         | 15.20        | 0.00         | 0.00        | 0.00        | 0.00        | 8.60        | 0.00        | 0.00        | 0.00        |
| <b>Pathargama</b>   | <b>2010</b> | 1.00         | 101.10       | 13.60         | 14.00        | 80.80        | 8.00          | 30.20        | 109.20       | 0.00          | 0.00          | 106.80       | 19.40         | 10.60        | 0.00         | 0.00          | 0.00          | 4.20         | 11.60        | 0.00         | 0.00        | 0.00        | 0.00        | 9.60        | 0.00        | 0.00        | 0.00        |
| <b>Poraiyahat</b>   | <b>2010</b> | 0.00         | 42.00        | 66.00         | 23.00        | 30.00        | 0.00          | 15.00        | 77.00        | 0.00          | 0.00          | 51.00        | 19.00         | 16.00        | 14.00        | 0.00          | 0.00          | 8.00         | 3.00         | 0.00         | 0.00        | 0.00        | 0.00        | 5.00        | 0.00        | 0.00        | 0.00        |
| <b>Sunderpahari</b> | <b>2010</b> | 1.00         | 101.10       | 13.60         | 14.00        | 80.80        | 8.00          | 30.20        | 109.20       | 0.00          | 0.00          | 106.80       | 19.40         | 10.60        | 0.00         | 0.00          | 0.00          | 4.20         | 11.60        | 0.00         | 0.00        | 0.00        | 0.00        | 9.60        | 0.00        | 0.00        | 0.00        |
| <b>Weighted RF</b>  | <b>2010</b> | <b>2.03</b>  | <b>73.62</b> | <b>34.13</b>  | <b>17.03</b> | <b>45.44</b> | <b>16.28</b>  | <b>33.73</b> | <b>84.98</b> | <b>0.00</b>   | <b>2.54</b>   | <b>72.18</b> | <b>19.02</b>  | <b>8.86</b>  | <b>5.82</b>  | <b>1.55</b>   | <b>0.00</b>   | <b>5.84</b>  | <b>7.22</b>  | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>6.09</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |
| <b>Barahat</b>      | <b>2011</b> | 26.00        | 28.20        | 69.40         | 88.60        | 77.20        | 276.80        | 123.80       | 10.40        | 2.00          | 11.40         | 81.00        | 142.60        | 2.00         | 0.00         | 0.00          | 20.20         | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Dhoriya</b>      | <b>2011</b> | 26.00        | 28.20        | 98.00         | 15.00        | 78.00        | 216.50        | 41.20        | 12.40        | 2.00          | 12.10         | 57.00        | 80.00         | 10.20        | 8.40         | 0.00          | 18.60         | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Godda</b>        | <b>2011</b> | 11.40        | 52.00        | 65.80         | 147.00       | 18.80        | 289.20        | 50.00        | 21.20        | 3.40          | 8.20          | 70.00        | 125.20        | 12.40        | 0.00         | 0.00          | 0.00          | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Pathargama</b>   | <b>2011</b> | 75.20        | 34.00        | 66.00         | 58.60        | 36.20        | 244.80        | 96.00        | 14.00        | 0.00          | 25.20         | 36.40        | 97.40         | 4.00         | 0.00         | 0.00          | 0.00          | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Poraiyahat</b>   | <b>2011</b> | 4.00         | 6.00         | 48.00         | 14.00        | 13.00        | 178.20        | 102.00       | 34.00        | 20.00         | 25.00         | 25.00        | 102.30        | 0.00         | 0.00         | 0.00          | 8.00          | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Sunderpahari</b> | <b>2011</b> | 0.00         | 85.00        | 209.00        | 38.40        | 63.40        | 387.00        | 81.40        | 3.40         | 2.00          | 6.20          | 53.50        | 73.00         | 15.20        | 0.00         | 0.00          | 0.00          | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Weighted RF</b>  | <b>2011</b> | <b>11.15</b> | <b>34.25</b> | <b>83.33</b>  | <b>60.24</b> | <b>32.84</b> | <b>254.60</b> | <b>87.69</b> | <b>21.76</b> | <b>9.73</b>   | <b>16.03</b>  | <b>48.24</b> | <b>107.10</b> | <b>6.04</b>  | <b>0.16</b>  | <b>0.00</b>   | <b>6.16</b>   | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |
| <b>Barahat</b>      | <b>2012</b> | 71.00        | 27.40        | 160.60        | 19.20        | 41.50        | 43.20         | 76.30        | 60.10        | 42.30         | 71.90         | 63.90        | 20.60         | 3.80         | 22.40        | 28.80         | 0.00          | 0.00         | 40.60        | 52.60        | 0.00        | 0.00        | 0.00        | 0.00        | 2.00        | 0.00        | 0.00        |
| <b>Dhoriya</b>      | <b>2012</b> | 71.00        | 27.40        | 160.60        | 19.20        | 41.50        | 43.20         | 76.30        | 60.10        | 42.30         | 71.90         | 63.90        | 20.60         | 3.80         | 22.40        | 28.80         | 0.00          | 0.00         | 40.60        | 52.60        | 0.00        | 0.00        | 0.00        | 0.00        | 2.00        | 0.00        | 0.00        |
| <b>Godda</b>        | <b>2012</b> | 45.20        | 60.60        | 222.40        | 9.00         | 20.40        | 39.40         | 29.40        | 21.80        | 0.00          | 40.40         | 73.20        | 23.80         | 0.00         | 10.40        | 18.60         | 0.00          | 0.00         | 12.40        | 42.80        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Pathargama</b>   | <b>2012</b> | 9.40         | 52.60        | 252.60        | 43.60        | 7.00         | 15.20         | 34.20        | 3.80         | 0.00          | 14.20         | 86.00        | 34.00         | 0.00         | 1.00         | 59.20         | 0.00          | 0.00         | 8.20         | 61.20        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Poraiyahat</b>   | <b>2012</b> | 24.00        | 36.00        | 68.60         | 6.00         | 7.00         | 23.40         | 38.00        | 46.00        | 0.00          | 29.60         | 79.00        | 9.00          | 2.00         | 18.00        | 27.00         | 0.00          | 0.00         | 30.00        | 28.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Sunderpahari</b> | <b>2012</b> | 2.00         | 9.00         | 1.00          | 58.80        | 6.00         | 62.00         | 79.40        | 53.60        | 326.80        | 92.80         | 0.00         | 24.80         | 54.20        | 79.40        | 53.60         | 326.80        | 50.60        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Weighted RF</b>  | <b>2012</b> | <b>31.34</b> | <b>36.73</b> | <b>114.03</b> | <b>18.94</b> | <b>14.86</b> | <b>36.04</b>  | <b>48.16</b> | <b>41.84</b> | <b>60.48</b>  | <b>48.01</b>  | <b>62.62</b> | <b>17.78</b>  | <b>10.41</b> | <b>26.37</b> | <b>31.07</b>  | <b>54.49</b>  | <b>8.44</b>  | <b>21.47</b> | <b>31.66</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.28</b> | <b>0.00</b> | <b>0.00</b> |
| <b>Barahat</b>      | <b>2013</b> | 24.80        | 61.80        | 7.60          | 58.10        | 35.90        | 88.60         | 49.30        | 66.60        | 66.20         | 13.40         | 2.50         | 16.60         | 29.40        | 41.90        | 132.00        | 7.20          | 21.50        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Dhoriya</b>      | <b>2013</b> | 24.80        | 61.80        | 7.60          | 58.10        | 35.90        | 88.60         | 49.30        | 66.60        | 66.20         | 13.40         | 2.50         | 16.60         | 29.40        | 41.90        | 132.00        | 7.20          | 21.50        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Godda</b>        | <b>2013</b> | 45.20        | 55.40        | 12.80         | 40.20        | 26.00        | 115.40        | 105.40       | 124.40       | 260.40        | 150.80        | 27.60        | 55.40         | 109.00       | 48.00        | 182.40        | 108.80        | 37.20        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Pathargama</b>   | <b>2013</b> | 53.60        | 6.00         | 11.20         | 17.60        | 6.00         | 62.00         | 79.40        | 53.60        | 326.80        | 26.20         | 35.00        | 10.00         | 59.00        | 79.40        | 53.60         | 326.80        | 50.60        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Poraiyahat</b>   | <b>2013</b> | 0.00         | 14.00        | 14.00         | 33.00        | 16.00        | 77.60         | 2.00         | 55.00        | 109.00        | 32.00         | 0.00         | 27.00         | 22.00        | 54.40        | 154.00        | 24.00         | 20.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Sunderpahari</b> | <b>2013</b> | 2.00         | 9.00         | 1.00          | 58.80        | 6.00         | 62.00         | 79.40        | 53.60        | 326.80        | 92.80         | 0.00         | 24.80         | 54.20        | 79.40        | 53.60         | 326.80        | 50.60        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Weighted RF</b>  | <b>2013</b> | <b>16.66</b> | <b>29.29</b> | <b>10.53</b>  | <b>41.90</b> | <b>19.07</b> | <b>84.75</b>  | <b>49.03</b> | <b>72.59</b> | <b>183.77</b> | <b>67.06</b>  | <b>8.27</b>  | <b>31.10</b>  | <b>50.32</b> | <b>56.34</b> | <b>136.60</b> | <b>104.59</b> | <b>30.62</b> | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## ANNEXURE -VII/3

**WITHDRAWAL POINT IN CHIR RIVER****SUMMARY OF WEEKLY WEIGHTED RAINFALL IN MM**

| Sl. No.          | Year | 1st Week    | 2nd Week    | 3rd Week    | 4th Week    | 5th Week    | 6th Week    | 7th Week    | 8th Week    | 9th Week    | 10th Week   | 11th Week   | 12th Week   | 13th Week   | 14th Week   | 15th Week   | 16th Week   | 17th Week   | 18th Week   | 19th Week   | 20th Week    | 21st Week    | 22nd Week    | 23rd Week    | 24th Week    | 25th Week    | 26th Week    |
|------------------|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 1                | 1992 | 0.74        | 5.09        | 0.00        | 0.07        | 0.05        | 13.47       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.02        | 6.40        | 15.22       | 0.00        | 22.37       | 17.40        | 8.35         | 14.27        | 27.71        | 19.57        | 17.84        |              |
| 2                | 1993 | 0.00        | 18.85       | 0.00        | 0.00        | 3.82        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 13.59       | 14.58       | 0.00        | 12.29       | 0.17        | 4.50        | 0.67        | 0.00        | 4.59         | 39.55        | 25.22        | 6.73         | 10.70        | 73.11        | 57.45        |
| 3                | 1994 | 1.00        | 0.00        | 12.39       | 0.00        | 16.46       | 6.96        | 0.00        | 17.17       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 8.91        | 6.57         | 6.53         | 1.41         | 68.08        | 36.01        | 49.55        | 43.08        |
| 4                | 1995 | 0.00        | 2.06        | 0.00        | 0.00        | 0.00        | 0.00        | 0.29        | 7.11        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 2.06        | 14.59        | 0.00         | 8.85         | 0.33         | 23.16        | 111.11       | 69.90        |
| 5                | 1996 | 0.00        | 0.00        | 3.37        | 0.00        | 0.00        | 0.00        | 0.00        | 8.09        | 44.69       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 15.28       | 29.39       | 0.00        | 0.00        | 3.37         | 3.43         | 5.28         | 41.76        | 0.00         | 131.91       | 165.33       |
| 6                | 1997 | 0.06        | 0.00        | 26.59       | 0.04        | 0.00        | 0.00        | 0.26        | 0.04        | 0.00        | 0.04        | 0.21        | 0.26        | 1.04        | 1.58        | 0.05        | 0.08        | 18.78       | 7.32        | 3.55        | 13.20        | 0.53         | 22.24        | 6.26         | 3.00         | 48.01        | 86.90        |
| 7                | 1998 | 0.42        | 0.00        | 0.78        | 1.20        | 0.00        | 0.20        | 5.48        | 23.16       | 0.00        | 0.28        | 1.85        | 20.42       | 48.29       | 0.57        | 0.37        | 0.59        | 13.96       | 6.97        | 0.37        | 23.65        | 4.43         | 11.62        | 0.00         | 31.14        | 19.18        | 8.89         |
| 8                | 1999 | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 1.98        | 1.42        | 0.00        | 26.75       | 35.18        | 52.87        | 46.69        | 2.27         | 88.28        | 89.08        | 185.80       |
| 9                | 2000 | 0.00        | 0.00        | 0.00        | 0.00        | 22.81       | 0.00        | 0.14        | 0.34        | 0.00        | 0.32        | 2.89        | 0.19        | 0.67        | 0.00        | 18.45       | 29.63       | 29.84       | 2.89        | 0.83        | 7.10         | 43.46        | 30.73        | 57.46        | 37.71        | 89.04        | 16.66        |
| 10               | 2001 | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 1.02        | 0.00        | 0.00        | 1.33        | 0.00        | 0.74        | 1.16        | 2.38         | 0.00         | 27.54        | 40.74        | 130.19       | 132.36       | 37.60        |
| 11               | 2002 | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.42        | 0.28        | 0.00        | 0.00        | 0.00        | 0.00        | 5.42        | 3.70        | 2.22        | 2.76        | 8.63        | 1.23        | 13.38        | 6.24         | 29.46        | 8.54         | 19.95        | 37.53        | 85.45        |
| 12               | 2003 | 0.00        | 0.00        | 0.00        | 0.00        | 0.51        | 0.00        | 13.94       | 2.61        | 12.48       | 0.00        | 13.63       | 1.40        | 0.00        | 0.00        | 0.00        | 18.85       | 2.50        | 0.00        | 3.63        | 4.42         | 3.81         | 0.00         | 14.51        | 13.87        | 16.36        | 42.21        |
| 13               | 2004 | 0.00        | 0.00        | 0.58        | 6.99        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.92        | 0.00        | 0.00        | 0.00        | 13.73       | 0.00        | 15.45       | 45.53       | 0.00        | 0.00        | 4.08         | 15.06        | 13.64        | 16.40        | 57.91        | 180.32       | 2.39         |
| 14               | 2005 | 0.00        | 0.00        | 0.35        | 1.26        | 4.06        | 0.00        | 2.93        | 0.00        | 0.00        | 0.88        | 2.45        | 8.52        | 0.00        | 0.00        | 5.46        | 6.57        | 0.00        | 8.24        | 0.00        | 6.87         | 12.79        | 0.00         | 18.94        | 0.59         | 15.81        | 148.76       |
| 15               | 2006 | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         | 0.00         | 0.00         | 184.50       | 0.00         | 38.20        | 38.50        |
| 16               | 2007 | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 8.92        | 48.94       | 0.00        | 16.45       | 0.00        | 6.50        | 0.00        | 0.00        | 0.00        | 0.78        | 14.94       | 0.00        | 0.00        | 41.61       | 10.63        | 3.36         | 5.51         | 23.88        | 84.77        | 38.48        | 21.12        |
| 17               | 2008 | 0.00        | 0.00        | 0.00        | 17.52       | 1.65        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 9.64        | 0.00        | 0.27        | 0.00        | 3.15        | 5.99        | 4.62         | 24.01        | 0.83         | 38.44        | 56.58        | 75.10        | 53.12        |
| 18               | 2009 | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 2.91        | 40.51       | 4.36         | 79.17        | 18.94        | 5.48         | 4.24         | 1.04         | 13.70        |
| 19               | 2010 | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 2.10        | 0.00        | 0.00        | 0.00        | 18.00       | 0.00        | 0.00        | 0.43        | 0.00        | 1.13        | 0.00        | 0.00        | 0.00        | 0.00         | 1.13         | 0.57         | 0.00         | 10.77        | 66.78        | 51.79        |
| 20               | 2011 | 0.00        | 0.00        | 1.45        | 0.00        | 0.00        | 0.00        | 4.31        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 12.05       | 0.00        | 4.51        | 19.84       | 0.00        | 8.21        | 6.89        | 33.89        | 15.09        | 13.76        | 5.31         | 48.88        | 77.49        | 90.25        |
| 21               | 2012 | 8.51        | 1.87        | 3.85        | 0.00        | 0.00        | 0.00        | 2.21        | 0.00        | 0.00        | 0.00        | 4.35        | 0.00        | 3.79        | 5.74        | 11.89       | 0.00        | 0.00        | 1.75        | 9.48        | 0.00         | 1.30         | 0.00         | 9.63         | 7.41         | 42.94        | 17.69        |
| 22               | 2013 | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 9.49        | 0.00        | 0.00        | 0.00        | 1.72        | 0.00        | 0.00        | 0.00        | 0.97        | 17.90       | 9.95        | 0.00        | 12.24       | 8.60         | 11.77        | 43.25        | 15.66        | 24.69        | 22.15        | 60.84        |
| <b>Average =</b> |      | <b>0.49</b> | <b>1.27</b> | <b>2.24</b> | <b>1.23</b> | <b>2.24</b> | <b>1.34</b> | <b>4.09</b> | <b>2.68</b> | <b>3.36</b> | <b>0.11</b> | <b>2.34</b> | <b>2.02</b> | <b>3.70</b> | <b>1.69</b> | <b>2.66</b> | <b>6.65</b> | <b>7.50</b> | <b>3.03</b> | <b>7.51</b> | <b>10.17</b> | <b>15.54</b> | <b>14.27</b> | <b>26.33</b> | <b>32.62</b> | <b>62.51</b> | <b>59.78</b> |



**SUMMARY OF WEEKLY WEIGHTED RAINFALL IN MM**

| Sl. No.          | Year | 27th Week    | 28th Week    | 29th Week    | 30th Week    | 31st Week    | 32nd Week    | 33rd Week    | 34th Week    | 35th Week    | 36th Week    | 37th Week    | 38th Week    | 39th Week     | 40th Week    | 41st Week    | 42nd Week    | 43rd Week   | 44th Week   | 45th Week    | 46th Week   | 47th Week   | 48th Week   | 49th Week   | 50th Week   | 51st Week   | 52nd Week   | Yearly Total   | In descending order | Dependability |            |      |
|------------------|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|---------------------|---------------|------------|------|
| 1                | 1992 | 30.64        | 192.15       | 155.88       | 46.87        | 29.65        | 91.12        | 41.92        | 43.44        | 29.93        | 0.25         | 6.67         | 0.00         | 217.96        | 19.37        | 41.62        | 0.50         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00           | 0.00                | 1116.52       | 2207.46    | 4.35 |
| 2                | 1993 | 12.10        | 22.30        | 71.50        | 76.20        | 7.60         | 149.90       | 30.60        | 130.20       | 74.00        | 36.50        | 38.60        | 6.10         | 35.40         | 8.40         | 25.40        | 9.20         | 0.00        | 36.80       | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00           | 1056.62             | 1743.51       | 8.70       |      |
| 3                | 1994 | 12.10        | 22.30        | 71.50        | 76.20        | 7.60         | 149.90       | 30.60        | 130.20       | 74.00        | 36.50        | 38.60        | 6.10         | 35.40         | 8.40         | 25.40        | 9.20         | 0.00        | 36.80       | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00           | 1044.93             | 1648.85       | 13.04      |      |
| 4                | 1995 | 84.10        | 68.40        | 130.80       | 138.40       | 30.20        | 158.30       | 37.80        | 303.60       | 108.80       | 89.60        | 68.20        | 31.00        | 74.60         | 29.00        | 0.00         | 29.00        | 0.00        | 27.60       | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00           | 1648.85             | 1488.79       | 17.39      |      |
| 5                | 1996 | 7.40         | 33.40        | 30.80        | 63.20        | 2.00         | 39.80        | 33.00        | 253.60       | 48.00        | 137.00       | 33.20        | 4.60         | 96.20         | 3.40         | 0.00         | 50.60        | 0.00        | 12.20       | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00           | 1300.29             | 1433.19       | 21.74      |      |
| 6                | 1997 | 9.00         | 18.20        | 39.60        | 76.40        | 3.00         | 57.80        | 27.20        | 133.00       | 75.20        | 35.20        | 29.40        | 0.00         | 84.20         | 6.60         | 0.00         | 12.60        | 0.00        | 7.60        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00           | 855.01              | 1300.29       | 26.09      |      |
| 7                | 1998 | 38.40        | 93.60        | 83.40        | 113.00       | 11.60        | 107.40       | 0.00         | 235.40       | 65.00        | 57.80        | 71.60        | 14.40        | 88.20         | 33.00        | 0.00         | 18.00        | 0.00        | 5.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00           | 1259.64             | 1259.64       | 30.43      |      |
| 8                | 1999 | 31.85        | 43.73        | 72.39        | 96.43        | 11.41        | 101.88       | 25.87        | 194.63       | 80.06        | 56.13        | 46.98        | 10.71        | 76.21         | 16.36        | 3.60         | 18.44        | 0.00        | 16.17       | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00           | 1433.19             | 1232.38       | 34.78      |      |
| 9                | 2000 | 20.60        | 0.00         | 7.00         | 62.60        | 87.60        | 15.20        | 100.80       | 28.00        | 9.80         | 0.00         | 49.00        | 13.20        | 0.00          | 33.10        | 89.40        | 0.00         | 0.00        | 6.40        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00           | 913.87              | 1197.41       | 39.13      |      |
| 10               | 2001 | 20.60        | 0.00         | 7.00         | 62.60        | 87.60        | 15.20        | 100.80       | 28.00        | 9.80         | 0.00         | 49.00        | 13.20        | 0.00          | 33.10        | 89.40        | 0.00         | 0.00        | 6.40        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00           | 897.75              | 1185.83       | 43.48      |      |
| 11               | 2002 | 25.00        | 8.60         | 20.60        | 181.60       | 127.00       | 3.40         | 237.80       | 70.80        | 23.20        | 5.40         | 57.80        | 16.40        | 0.00          | 17.20        | 165.80       | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00           | 1185.83             | 1164.13       | 47.83      |      |
| 12               | 2003 | 20.60        | 0.00         | 2.40         | 89.60        | 55.00        | 9.80         | 73.00        | 61.60        | 13.20        | 0.00         | 98.40        | 7.60         | 0.00          | 0.00         | 65.30        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00           | 661.21              | 1116.52       | 52.17      |      |
| 13               | 2004 | 15.20        | 8.80         | 14.60        | 58.00        | 65.40        | 17.20        | 59.60        | 50.40        | 6.00         | 9.00         | 42.20        | 22.00        | 0.00          | 23.00        | 61.60        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00           | 826.00              | 1056.62       | 56.52      |      |
| 14               | 2005 | 19.60        | 7.00         | 35.40        | 30.20        | 61.60        | 31.80        | 101.30       | 48.00        | 30.00        | 4.80         | 39.20        | 4.10         | 0.00          | 50.80        | 62.80        | 0.00         | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00           | 771.09              | 1044.93       | 60.87      |      |
| 15               | 2006 | 19.22        | 6.84         | 17.89        | 84.26        | 81.89        | 15.81        | 114.65       | 52.07        | 14.87        | 5.81         | 48.66        | 15.86        | 0.00          | 26.75        | 90.27        | 0.00         | 0.00        | 0.91        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00           | 856.93              | 965.30        | 65.22      |      |
| 16               | 2007 | 37.00        | 105.80       | 48.00        | 0.00         | 40.00        | 86.00        | 165.20       | 24.40        | 5.00         | 5.20         | 0.00         | 92.60        | 229.00        | 0.00         | 0.00         | 50.00        | 0.00        | 0.00        | 5.50         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 12.80          | 1232.38             | 913.87        | 69.57      |      |
| 17               | 2008 | 37.00        | 105.80       | 48.00        | 0.00         | 40.00        | 86.00        | 165.20       | 24.40        | 5.00         | 5.20         | 0.00         | 92.60        | 229.00        | 0.00         | 0.00         | 50.00        | 0.00        | 0.00        | 5.50         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 12.80          | 1197.41             | 897.75        | 73.91      |      |
| 18               | 2009 | 187.40       | 342.40       | 74.90        | 58.00        | 160.00       | 136.80       | 177.60       | 24.40        | 20.80        | 83.40        | 11.40        | 116.00       | 432.40        | 0.00         | 0.00         | 40.00        | 5.40        | 0.00        | 140.00       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 26.20          | 2207.46             | 856.93        | 78.26      |      |
| 19               | 2010 | 35.00        | 123.00       | 16.60        | 12.80        | 26.80        | 53.40        | 91.20        | 0.00         | 15.80        | 65.40        | 0.00         | 103.40       | 203.80        | 0.00         | 2.00         | 3.60         | 2.60        | 0.00        | 40.60        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 1.20        | 15.40       | 965.30         | 855.01              | 82.61         |            |      |
| 20               | 2011 | 57.40        | 101.60       | 31.00        | 23.00        | 60.40        | 69.00        | 27.00        | 4.00         | 6.00         | 54.80        | 24.00        | 99.00        | 154.20        | 12.80        | 4.40         | 4.80         | 0.00        | 16.00       | 68.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 1.00        | 3.80        | 1164.13        | 826.00              | 86.96         |            |      |
| 21               | 2012 | 132.60       | 256.20       | 101.60       | 66.00        | 44.50        | 40.00        | 175.00       | 0.00         | 11.00        | 47.00        | 52.00        | 168.40       | 371.00        | 0.00         | 4.00         | 18.00        | 0.00        | 0.00        | 116.00       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 7.80        | 1743.51        | 771.09              | 91.30         |            |      |
| 22               | 2013 | 96.53        | 185.21       | 54.85        | 34.68        | 76.76        | 81.79        | 109.17       | 10.83        | 10.56        | 53.61        | 21.32        | 113.83       | 268.11        | 5.32         | 2.58         | 21.59        | 1.37        | 6.65        | 82.85        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.47        | 11.47       | 1488.79        | 661.21              | 95.65         |            |      |
| <b>Average =</b> |      | <b>43.15</b> | <b>79.33</b> | <b>51.62</b> | <b>65.91</b> | <b>50.80</b> | <b>68.98</b> | <b>87.51</b> | <b>84.13</b> | <b>33.46</b> | <b>35.85</b> | <b>37.56</b> | <b>43.23</b> | <b>117.99</b> | <b>14.85</b> | <b>33.34</b> | <b>15.25</b> | <b>0.43</b> | <b>8.12</b> | <b>20.84</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.12</b> | <b>4.10</b> | <b>1173.94</b> |                     |               |            |      |
|                  |      |              |              |              |              |              |              |              |              |              |              |              |              |               |              |              |              |             |             |              |             |             |             |             |             |             |             |                |                     | <b>887.23</b> | <b>75%</b> |      |
|                  |      |              |              |              |              |              |              |              |              |              |              |              |              |               |              |              |              |             |             |              |             |             |             |             |             |             |             |                |                     | <b>787.62</b> | <b>90%</b> |      |

Annexure - VIII/1**22 YEARS MONSOON GENERATED SERIES FOR WITHDRAWAL SITE**

| YEAR | 23 <sup>rd</sup> Week (04 to 10 Jun)                |   |                        | 24 <sup>th</sup> Week (11 to 17 Jun)                |   |                        |
|------|---|---|------------------------|---|---|------------------------|
|      | Weekly RF of 23 <sup>rd</sup> -X <sub>1</sub> in mm | Weekly RF of 22 <sup>nd</sup> -X <sub>2</sub> in mm | Computed runoff in MCM | Weekly RF of 24 <sup>th</sup> -X <sub>1</sub> in mm | Weekly RF of 23 <sup>rd</sup> -X <sub>2</sub> in mm | Computed runoff in MCM |
| 1992 | 14.27   | 8.35  | 1.66                   | 27.71   | 14.27   | 5.91                   |
| 1993 | 6.73  | 25.22   | 0.00                   | 10.70   | 6.73  | 2.58                   |
| 1994 | 68.08   | 1.41  | 20.17                  | 36.01   | 68.08   | 3.74                   |
| 1995 | 0.33  | 8.85  | 0.00                   | 23.16   | 0.33  | 5.92                   |
| 1996 | 41.76   | 5.28  | 11.06                  | 0.00  | 41.76   | 0.00                   |
| 1997 | 6.26  | 22.24   | 0.00                   | 3.00  | 6.26  | 0.85                   |
| 1998 | 0.00  | 11.62   | 0.00                   | 31.14   | 0.00  | 7.78                   |
| 1999 | 2.27  | 46.69   | 0.00                   | 88.28   | 2.27  | 20.70                  |
| 2000 | 57.46   | 30.73   | 13.15                  | 37.71   | 57.46   | 4.94                   |
| 2001 | 40.74   | 27.54   | 8.04                   | 130.19  | 40.74   | 27.40                  |
| 2002 | 8.54  | 29.46   | 0.00                   | 19.95   | 8.54  | 4.57                   |
| 2003 | 14.51   | 0.00  | 2.75                   | 13.87   | 14.51   | 2.72                   |
| 2004 | 16.40   | 13.64   | 1.72                   | 57.91   | 16.40   | 12.67                  |
| 2005 | 18.94   | 0.00  | 4.20                   | 0.59  | 18.94   | 0.00                   |
| 2006 | 184.50  | 0.00  | 58.59                  | 0.00  | 184.50  | 0.00                   |
| 2007 | 23.88   | 5.51  | 5.16                   | 84.77   | 23.88   | 18.26                  |
| 2008 | 38.44   | 0.83  | 10.51                  | 56.58   | 38.44   | 10.70                  |
| 2009 | 5.48  | 18.94   | 0.00                   | 4.24  | 5.48  | 1.20                   |
| 2010 | 0.00  | 0.57  | 0.00                   | 10.77   | 0.00  | 3.11                   |
| 2011 | 5.31  | 13.76   | 0.00                   | 48.88   | 5.31  | 11.44                  |
| 2012 | 9.63  | 0.00  | 1.14                   | 7.41  | 9.63  | 1.61                   |
| 2013 | 15.66   | 43.25   | 0.00                   | 24.69   | 15.66   | 5.11                   |

| YEAR | 25 <sup>th</sup> Week (18 to 24 Jun)                |   |                        | 26 <sup>th</sup> Week (25 Jun to 01 Jul)            |   |                        |
|------|---|---|------------------------|---|---|------------------------|
|      | Weekly RF of 25 <sup>th</sup> -X <sub>1</sub> in mm | Weekly RF of 24 <sup>th</sup> -X <sub>2</sub> in mm | Computed runoff in MCM | Weekly RF of 26 <sup>th</sup> -X <sub>1</sub> in mm | Weekly RF of 25 <sup>th</sup> -X <sub>2</sub> in mm | Computed runoff in MCM |
| 1992 | 19.57   | 27.71   | 0.00                   | 17.84   | 19.57   | 6.30                   |
| 1993 | 73.11   | 10.70   | 26.24                  | 57.45   | 73.11   | 33.01                  |
| 1994 | 49.55   | 36.01   | 12.52                  | 43.08   | 49.55   | 21.07                  |
| 1995 | 111.11  | 23.16   | 50.79                  | 69.90   | 111.11  | 52.93                  |
| 1996 | 131.91  | 0.00  | 62.87                  | 165.33  | 131.91  | 58.43                  |
| 1997 | 48.01   | 3.00  | 10.05                  | 86.90   | 48.01   | 17.56                  |
| 1998 | 19.18   | 31.14   | 0.00                   | 8.89  | 19.18   | 6.63                   |
| 1999 | 89.08   | 88.28   | 39.84                  | 185.80  | 89.08   | 33.89                  |
| 2000 | 89.04   | 37.71   | 37.52                  | 16.66   | 89.04   | 44.17                  |
| 2001 | 132.36  | 130.19  | 69.05                  | 37.60   | 132.36  | 66.45                  |
| 2002 | 37.53   | 19.95   | 4.20                   | 85.45   | 37.53   | 11.95                  |
| 2003 | 16.36   | 13.87   | 0.00                   | 42.21   | 16.36   | 3.07                   |
| 2004 | 180.32  | 57.91   | 96.04                  | 2.39  | 180.32  | 94.69                  |
| 2005 | 15.81   | 0.59  | 0.00                   | 148.76  | 15.81   | 0.00                   |
| 2006 | 38.20   | 0.00  | 3.72                   | 38.50   | 38.20   | 15.18                  |
| 2007 | 38.48   | 84.77   | 7.74                   | 21.12   | 38.48   | 16.39                  |
| 2008 | 75.10   | 56.58   | 29.57                  | 53.12   | 75.10   | 34.36                  |
| 2009 | 1.04  | 4.24  | 0.00                   | 13.70   | 1.04  | 0.00                   |
| 2010 | 66.78   | 10.77   | 22.25                  | 51.79   | 66.78   | 29.92                  |
| 2011 | 77.49   | 48.88   | 30.73                  | 90.25   | 77.49   | 33.40                  |
| 2012 | 42.94   | 7.41  | 7.05                   | 17.69   | 42.94   | 19.03                  |
| 2013 | 22.15   | 24.69   | 0.00                   | 60.84   | 22.15   | 5.09                   |

| YEAR | 27 <sup>th</sup> Week (02 to 08 Jul)                |   |                        | 28 <sup>th</sup> Week (09 to 15 Jul)                |   |                        |
|------|---|---|------------------------|---|---|------------------------|
|      | Weekly RF of 27 <sup>th</sup> -X <sub>1</sub> in mm | Weekly RF of 26 <sup>th</sup> -X <sub>2</sub> in mm | Computed runoff in MCM | Weekly RF of 28 <sup>th</sup> -X <sub>1</sub> in mm | Weekly RF of 27 <sup>th</sup> -X <sub>2</sub> in mm | Computed runoff in MCM |
| 1992 | 30.64   | 17.84   | 6.15                   | 192.15  | 30.64   | 100.25                 |
| 1993 | 12.10   | 57.45   | 8.01                   | 22.30   | 12.10   | 8.18                   |
| 1994 | 12.10   | 43.08   | 6.00                   | 22.30   | 12.10   | 8.18                   |
| 1995 | 84.10   | 69.90   | 24.02                  | 68.40   | 84.10   | 31.01                  |
| 1996 | 7.40  | 165.33  | 22.13                  | 33.40   | 7.40  | 14.39                  |
| 1997 | 9.00  | 86.90   | 11.50                  | 18.20   | 9.00  | 6.05                   |
| 1998 | 38.40   | 8.89  | 6.44                   | 93.60   | 38.40   | 46.23                  |
| 1999 | 31.85   | 185.80  | 29.83                  | 43.73   | 31.85   | 19.24                  |
| 2000 | 20.60   | 16.66   | 4.00                   | 0.00  | 20.60   | 0.00                   |
| 2001 | 20.60   | 37.60   | 6.92                   | 0.00  | 20.60   | 0.00                   |
| 2002 | 25.00   | 85.45   | 14.47                  | 8.60  | 25.00   | 0.29                   |
| 2003 | 20.60   | 42.21   | 7.56                   | 0.00  | 20.60   | 0.00                   |
| 2004 | 15.20   | 2.39  | 0.93                   | 8.80  | 15.20   | 0.72                   |
| 2005 | 19.60   | 148.76  | 22.24                  | 7.00  | 19.60   | 0.00                   |
| 2006 | 19.22   | 38.50   | 6.77                   | 6.84  | 19.22   | 0.00                   |
| 2007 | 37.00   | 21.12   | 7.87                   | 105.80  | 37.00   | 52.94                  |
| 2008 | 37.00   | 53.12   | 12.34                  | 105.80  | 37.00   | 52.94                  |
| 2009 | 187.40  | 13.70   | 36.67                  | 342.40  | 187.40  | 177.16                 |
| 2010 | 35.00   | 51.79   | 11.76                  | 123.00  | 35.00   | 62.38                  |
| 2011 | 57.40   | 90.25   | 21.57                  | 101.60  | 57.40   | 49.99                  |
| 2012 | 132.60  | 17.69   | 26.35                  | 256.20  | 132.60  | 131.90                 |
| 2013 | 96.53   | 60.84   | 25.22                  | 185.21  | 96.53   | 94.34                  |

| YEAR | 29 <sup>th</sup> Week (16 to 22 Jul)                |   |                        | 30 <sup>th</sup> Week (23 to 29 Jul)                |   |                        |
|------|---|---|------------------------|---|---|------------------------|
|      | Weekly RF of 29 <sup>th</sup> -X <sub>1</sub> in mm | Weekly RF of 28 <sup>th</sup> -X <sub>2</sub> in mm | Computed runoff in MCM | Weekly RF of 30 <sup>th</sup> -X <sub>1</sub> in mm | Weekly RF of 29 <sup>th</sup> -X <sub>2</sub> in mm | Computed runoff in MCM |
| 1992 | 155.88  | 192.15  | 74.55                  | 46.87   | 155.88  | 64.23                  |
| 1993 | 71.50   | 22.30   | 29.89                  | 76.20   | 71.50   | 34.97                  |
| 1994 | 71.50   | 22.30   | 29.89                  | 76.20   | 71.50   | 34.97                  |
| 1995 | 130.80  | 68.40   | 57.79                  | 138.40  | 130.80  | 68.73                  |
| 1996 | 30.80   | 33.40   | 12.77                  | 63.20   | 30.80   | 16.52                  |
| 1997 | 39.60   | 18.20   | 15.86                  | 76.40   | 39.60   | 22.17                  |
| 1998 | 83.40   | 93.60   | 38.44                  | 113.00  | 83.40   | 45.62                  |
| 1999 | 72.39   | 43.73   | 31.29                  | 96.43   | 72.39   | 38.55                  |
| 2000 | 7.00  | 0.00  | 0.86                   | 62.60   | 7.00  | 6.86                   |
| 2001 | 7.00  | 0.00  | 0.86                   | 62.60   | 7.00  | 6.86                   |
| 2002 | 20.60   | 8.60  | 7.16                   | 181.60  | 20.60   | 31.29                  |
| 2003 | 2.40  | 0.00  | 0.00                   | 89.60   | 2.40  | 9.31                   |
| 2004 | 14.60   | 8.80  | 4.57                   | 58.00   | 14.60   | 9.18                   |
| 2005 | 35.40   | 7.00  | 13.51                  | 30.20   | 35.40   | 13.12                  |
| 2006 | 17.89   | 6.84  | 5.90                   | 84.26   | 17.89   | 14.69                  |
| 2007 | 48.00   | 105.80  | 23.66                  | 0.00  | 48.00   | 13.37                  |
| 2008 | 48.00   | 105.80  | 23.66                  | 0.00  | 48.00   | 13.37                  |
| 2009 | 74.90   | 342.40  | 46.57                  | 58.00   | 74.90   | 33.43                  |
| 2010 | 16.60   | 123.00  | 10.86                  | 12.80   | 16.60   | 2.78                   |
| 2011 | 31.00   | 101.60  | 16.09                  | 23.00   | 31.00   | 10.20                  |
| 2012 | 101.60  | 256.20  | 54.05                  | 66.00   | 101.60  | 45.45                  |
| 2013 | 54.85   | 185.21  | 30.41                  | 34.68   | 54.85   | 21.65                  |

| YEAR | 31 <sup>st</sup> Week (30 Jul to 05 Aug)            |   |                        | 32 <sup>nd</sup> Week (06 to 12 Aug)                |   |                        |
|------|---|---|------------------------|---|---|------------------------|
|      | Weekly RF of 31 <sup>st</sup> -X <sub>1</sub> in mm | Weekly RF of 30 <sup>th</sup> -X <sub>2</sub> in mm | Computed runoff in MCM | Weekly RF of 32 <sup>nd</sup> -X <sub>1</sub> in mm | Weekly RF of 31 <sup>st</sup> -X <sub>2</sub> in mm | Computed runoff in MCM |
| 1992 | 29.65   | 46.87   | 25.59                  | 91.12   | 29.65   | 67.95                  |
| 1993 | 7.60  | 76.20   | 17.36                  | 149.90  | 7.60  | 109.19                 |
| 1994 | 7.60  | 76.20   | 17.36                  | 149.90  | 7.60  | 109.19                 |
| 1995 | 30.20   | 138.40  | 31.90                  | 158.30  | 30.20   | 114.83                 |
| 1996 | 2.00  | 63.20   | 13.92                  | 39.80   | 2.00  | 32.39                  |
| 1997 | 3.00  | 76.40   | 15.25                  | 57.80   | 3.00  | 44.95                  |
| 1998 | 11.60   | 113.00  | 21.64                  | 107.40  | 11.60   | 79.48                  |
| 1999 | 11.41   | 96.43   | 20.46                  | 101.88  | 11.41   | 75.63                  |
| 2000 | 87.60   | 62.60   | 53.36                  | 15.20   | 87.60   | 14.41                  |
| 2001 | 87.60   | 62.60   | 53.36                  | 15.20   | 87.60   | 14.41                  |
| 2002 | 127.00  | 181.60  | 79.40                  | 3.40  | 127.00  | 5.79                   |
| 2003 | 55.00   | 89.60   | 40.11                  | 9.80  | 55.00   | 10.95                  |
| 2004 | 65.40   | 58.00   | 42.82                  | 17.20   | 65.40   | 16.01                  |
| 2005 | 61.60   | 30.20   | 39.22                  | 31.80   | 61.60   | 26.24                  |
| 2006 | 81.89   | 84.26   | 52.16                  | 15.81   | 81.89   | 14.89                  |
| 2007 | 40.00   | 0.00  | 27.27                  | 86.00   | 40.00   | 64.28                  |
| 2008 | 40.00   | 0.00  | 27.27                  | 86.00   | 40.00   | 64.28                  |
| 2009 | 160.00  | 58.00   | 86.45                  | 136.80  | 160.00  | 98.59                  |
| 2010 | 26.80   | 12.80   | 22.02                  | 53.40   | 26.80   | 41.65                  |
| 2011 | 60.40   | 23.00   | 38.20                  | 69.00   | 60.40   | 52.22                  |
| 2012 | 44.50   | 66.00   | 33.71                  | 40.00   | 44.50   | 32.13                  |
| 2013 | 76.76   | 34.68   | 46.51                  | 81.79   | 76.76   | 60.98                  |

| YEAR | 33 <sup>rd</sup> Week (13 to 19 Aug)                |   |                        | 34 <sup>th</sup> Week (20 to 26 Aug)                |   |                        |
|------|---|---|------------------------|---|---|------------------------|
|      | Weekly RF of 33 <sup>rd</sup> -X <sub>1</sub> in mm | Weekly RF of 32 <sup>nd</sup> -X <sub>2</sub> in mm | Computed runoff in MCM | Weekly RF of 34 <sup>th</sup> -X <sub>1</sub> in mm | Weekly RF of 33 <sup>rd</sup> -X <sub>2</sub> in mm | Computed runoff in MCM |
| 1992 | 41.92   | 91.12   | 29.84                  | 43.44   | 41.92   | 29.06                  |
| 1993 | 30.60   | 149.90  | 9.67                   | 130.20  | 30.60   | 69.01                  |
| 1994 | 30.60   | 149.90  | 9.67                   | 130.20  | 30.60   | 69.01                  |
| 1995 | 37.80   | 158.30  | 17.00                  | 303.60  | 37.80   | 150.42                 |
| 1996 | 33.00   | 39.80   | 25.68                  | 253.60  | 33.00   | 126.80                 |
| 1997 | 27.20   | 57.80   | 16.80                  | 133.00  | 27.20   | 70.14                  |
| 1998 | 0.00  | 107.40  | 0.00                   | 235.40  | 0.00  | 116.57                 |
| 1999 | 25.87   | 101.88  | 9.97                   | 194.63  | 25.87   | 98.87                  |
| 2000 | 100.80  | 15.20   | 107.15                 | 28.00   | 100.80  | 24.93                  |
| 2001 | 100.80  | 15.20   | 107.15                 | 28.00   | 100.80  | 24.93                  |
| 2002 | 237.80  | 3.40  | 267.20                 | 70.80   | 237.80  | 52.11                  |
| 2003 | 73.00   | 9.80  | 75.61                  | 61.60   | 73.00   | 39.18                  |
| 2004 | 59.60   | 17.20   | 59.20                  | 50.40   | 59.60   | 33.24                  |
| 2005 | 101.30  | 31.80   | 105.73                 | 48.00   | 101.30  | 34.30                  |
| 2006 | 114.65  | 15.81   | 123.10                 | 52.07   | 114.65  | 36.90                  |
| 2007 | 165.20  | 86.00   | 173.21                 | 24.40   | 165.20  | 26.62                  |
| 2008 | 165.20  | 86.00   | 173.21                 | 24.40   | 165.20  | 26.62                  |
| 2009 | 177.60  | 136.80  | 181.46                 | 24.40   | 177.60  | 27.27                  |
| 2010 | 91.20   | 53.40   | 91.44                  | 0.00  | 91.20   | 11.34                  |
| 2011 | 27.00   | 69.00   | 15.23                  | 4.00  | 27.00   | 9.85                   |
| 2012 | 175.00  | 40.00   | 190.08                 | 0.00  | 175.00  | 15.74                  |
| 2013 | 109.17  | 81.79   | 108.84                 | 10.83   | 109.17  | 17.35                  |

| YEAR | 35 <sup>th</sup> Week (27 Aug to 02 Sep)            |   |                        | 36 <sup>th</sup> Week (03 to 09 Sep)                |   |                        |
|------|---|---|------------------------|---|---|------------------------|
|      | Weekly RF of 35 <sup>th</sup> -X <sub>1</sub> in mm | Weekly RF of 34 <sup>th</sup> -X <sub>2</sub> in mm | Computed runoff in MCM | Weekly RF of 36 <sup>th</sup> -X <sub>1</sub> in mm | Weekly RF of 35 <sup>th</sup> -X <sub>2</sub> in mm | Computed runoff in MCM |
| 1992 | 29.93   | 43.44   | 26.30                  | 0.25  | 29.93   | 8.41                   |
| 1993 | 74.00   | 130.20  | 45.77                  | 36.50   | 74.00   | 45.25                  |
| 1994 | 74.00   | 130.20  | 45.77                  | 36.50   | 74.00   | 45.25                  |
| 1995 | 108.80  | 303.60  | 47.50                  | 89.60   | 108.80  | 96.00                  |
| 1996 | 48.00   | 253.60  | 11.55                  | 137.00  | 48.00   | 131.41                 |
| 1997 | 75.20   | 133.00  | 46.25                  | 35.20   | 75.20   | 44.23                  |
| 1998 | 65.00   | 235.40  | 25.79                  | 57.80   | 65.00   | 63.13                  |
| 1999 | 80.06   | 194.63  | 41.62                  | 56.13   | 80.06   | 63.28                  |
| 2000 | 9.80  | 28.00   | 14.24                  | 0.00  | 9.80  | 6.02                   |
| 2001 | 9.80  | 28.00   | 14.24                  | 0.00  | 9.80  | 6.02                   |
| 2002 | 23.20   | 70.80   | 18.03                  | 5.40  | 23.20   | 12.25                  |
| 2003 | 13.20   | 61.60   | 12.24                  | 0.00  | 13.20   | 6.39                   |
| 2004 | 6.00  | 50.40   | 8.67                   | 9.00  | 6.00  | 13.58                  |
| 2005 | 30.00   | 48.00   | 25.75                  | 4.80  | 30.00   | 12.45                  |
| 2006 | 14.87   | 52.07   | 14.65                  | 5.81  | 14.87   | 11.71                  |
| 2007 | 5.00  | 24.40   | 11.36                  | 5.20  | 5.00  | 10.11                  |
| 2008 | 5.00  | 24.40   | 11.36                  | 5.20  | 5.00  | 10.11                  |
| 2009 | 20.80   | 24.40   | 22.39                  | 83.40   | 20.80   | 81.04                  |
| 2010 | 15.80   | 0.00  | 22.08                  | 65.40   | 15.80   | 64.56                  |
| 2011 | 6.00  | 4.00  | 14.71                  | 54.80   | 6.00  | 54.12                  |
| 2012 | 11.00   | 0.00  | 18.73                  | 47.00   | 11.00   | 47.76                  |
| 2013 | 10.56   | 10.83   | 17.01                  | 53.61   | 10.56   | 53.56                  |



| YEAR | 37 <sup>th</sup> Week (10 to 16 Sep)                |   |                        | 38 <sup>th</sup> Week (17 to 23 Sep)                |   |                        |
|------|---|---|------------------------|---|---|------------------------|
|      | Weekly RF of 37 <sup>th</sup> -X <sub>1</sub> in mm | Weekly RF of 36 <sup>th</sup> -X <sub>2</sub> in mm | Computed runoff in MCM | Weekly RF of 38 <sup>th</sup> -X <sub>1</sub> in mm | Weekly RF of 37 <sup>th</sup> -X <sub>2</sub> in mm | Computed runoff in MCM |
| 1992 | 6.67  | 0.25  | 12.93                  | 0.00  | 6.67  | 1.02                   |
| 1993 | 38.60   | 36.50   | 31.96                  | 6.10  | 38.60   | 3.32                   |
| 1994 | 38.60   | 36.50   | 31.96                  | 6.10  | 38.60   | 3.32                   |
| 1995 | 68.20   | 89.60   | 56.00                  | 31.00   | 68.20   | 26.33                  |
| 1996 | 33.20   | 137.00  | 63.72                  | 4.60  | 33.20   | 2.42                   |
| 1997 | 29.40   | 35.20   | 29.48                  | 0.00  | 29.40   | 0.00                   |
| 1998 | 71.60   | 57.80   | 46.33                  | 14.40   | 71.60   | 7.85                   |
| 1999 | 46.98   | 56.13   | 40.27                  | 10.71   | 46.98   | 7.19                   |
| 2000 | 49.00   | 0.00  | 22.32                  | 13.20   | 49.00   | 9.61                   |
| 2001 | 49.00   | 0.00  | 22.32                  | 13.20   | 49.00   | 9.61                   |
| 2002 | 57.80   | 5.40  | 26.06                  | 16.40   | 57.80   | 11.89                  |
| 2003 | 98.40   | 0.00  | 33.37                  | 7.60  | 98.40   | 0.00                   |
| 2004 | 42.20   | 9.00  | 23.75                  | 22.00   | 42.20   | 20.09                  |
| 2005 | 39.20   | 4.80  | 21.70                  | 4.10  | 39.20   | 1.06                   |
| 2006 | 48.66   | 5.81  | 24.14                  | 15.86   | 48.66   | 12.54                  |
| 2007 | 0.00  | 5.20  | 13.06                  | 92.60   | 0.00  | 102.45                 |
| 2008 | 0.00  | 5.20  | 13.06                  | 92.60   | 0.00  | 102.45                 |
| 2009 | 11.40   | 83.40   | 41.26                  | 116.00  | 11.40   | 126.31                 |
| 2010 | 0.00  | 65.40   | 32.80                  | 103.40  | 0.00  | 114.18                 |
| 2011 | 24.00   | 54.80   | 34.70                  | 99.00   | 24.00   | 106.15                 |
| 2012 | 52.00   | 47.00   | 38.40                  | 168.40  | 52.00   | 177.69                 |
| 2013 | 21.32   | 53.61   | 33.71                  | 113.83  | 21.32   | 122.61                 |
| 2004 | 37.56   | 0.00  | 19.76                  | 43.23   | 37.56   | 43.77                  |

| YEAR | 39 <sup>th</sup> Week (24 to 30 Sep)                |   |                        | 40 <sup>th</sup> Week (01 to 07 Oct)                |   |                        |
|------|---|---|------------------------|---|---|------------------------|
|      | Weekly RF of 39 <sup>th</sup> -X <sub>1</sub> in mm | Weekly RF of 38 <sup>th</sup> -X <sub>2</sub> in mm | Computed runoff in MCM | Weekly RF of 40 <sup>th</sup> -X <sub>1</sub> in mm | Weekly RF of 39 <sup>th</sup> -X <sub>2</sub> in mm | Computed runoff in MCM |
| 1992 | 217.96  | 0.00  | 156.08                 | 19.37   | 217.96  | 34.67                  |
| 1993 | 35.40   | 6.10  | 26.16                  | 8.40  | 35.40   | 16.08                  |
| 1994 | 35.40   | 6.10  | 26.16                  | 8.40  | 35.40   | 16.08                  |
| 1995 | 74.60   | 31.00   | 64.85                  | 29.00   | 74.60   | 60.23                  |
| 1996 | 96.20   | 4.60  | 69.65                  | 3.40  | 96.20   | 3.22                   |
| 1997 | 84.20   | 0.00  | 59.05                  | 6.60  | 84.20   | 10.63                  |
| 1998 | 88.20   | 14.40   | 67.88                  | 33.00   | 88.20   | 68.62                  |
| 1999 | 76.21   | 10.71   | 57.66                  | 16.36   | 76.21   | 32.37                  |
| 2000 | 0.00  | 13.20   | 3.41                   | 33.10   | 0.00  | 71.52                  |
| 2001 | 0.00  | 13.20   | 3.41                   | 33.10   | 0.00  | 71.52                  |
| 2002 | 0.00  | 16.40   | 4.72                   | 17.20   | 0.00  | 36.52                  |
| 2003 | 0.00  | 7.60  | 1.10                   | 0.00  | 0.00  | 0.00                   |
| 2004 | 0.00  | 22.00   | 7.03                   | 23.00   | 0.00  | 49.29                  |
| 2005 | 0.00  | 4.10  | 0.00                   | 50.80   | 0.00  | 110.48                 |
| 2006 | 0.00  | 15.86   | 4.50                   | 26.75   | 0.00  | 57.54                  |
| 2007 | 229.00  | 92.60   | 202.20                 | 0.00  | 229.00  | 0.00                   |
| 2008 | 229.00  | 92.60   | 202.20                 | 0.00  | 229.00  | 0.00                   |
| 2009 | 432.40  | 116.00  | 359.37                 | 0.00  | 432.40  | 0.00                   |
| 2010 | 203.80  | 103.40  | 188.36                 | 0.00  | 203.80  | 0.00                   |
| 2011 | 154.20  | 99.00   | 150.57                 | 12.80   | 154.20  | 22.15                  |
| 2012 | 371.00  | 168.40  | 336.39                 | 0.00  | 371.00  | 0.00                   |
| 2013 | 268.11  | 113.83  | 239.30                 | 5.32  | 268.11  | 2.23                   |

| YEAR | 41 <sup>st</sup> Week (08 to 14 Oct)                |   |                        | 42 <sup>nd</sup> Week (15 to 21 Oct)                |   |                        |
|------|---|---|------------------------|---|---|------------------------|
|      | Weekly RF of 41 <sup>st</sup> -X <sub>1</sub> in mm | Weekly RF of 40 <sup>th</sup> -X <sub>2</sub> in mm | Computed runoff in MCM | Weekly RF of 42 <sup>nd</sup> -X <sub>1</sub> in mm | Weekly RF of 41 <sup>st</sup> -X <sub>2</sub> in mm | Computed runoff in MCM |
| 1992 | 41.62   | 19.37   | 56.22                  | 0.50  | 41.62   | 15.31                  |
| 1993 | 25.40   | 8.40  | 37.38                  | 9.20  | 25.40   | 25.25                  |
| 1994 | 25.40   | 8.40  | 37.38                  | 9.20  | 25.40   | 25.25                  |
| 1995 | 0.00  | 29.00   | 14.24                  | 29.00   | 0.00  | 48.98                  |
| 1996 | 0.00  | 3.40  | 9.92                   | 50.60   | 0.00  | 77.50                  |
| 1997 | 0.00  | 6.60  | 10.46                  | 12.60   | 0.00  | 27.32                  |
| 1998 | 0.00  | 33.00   | 14.92                  | 18.00   | 0.00  | 34.45                  |
| 1999 | 3.60  | 16.36   | 15.88                  | 18.44   | 3.60  | 35.38                  |
| 2000 | 89.40   | 33.10   | 108.62                 | 0.00  | 89.40   | 19.21                  |
| 2001 | 89.40   | 33.10   | 108.62                 | 0.00  | 89.40   | 19.21                  |
| 2002 | 165.80  | 17.20   | 185.99                 | 0.00  | 165.80  | 26.50                  |
| 2003 | 65.30   | 0.00  | 77.78                  | 0.00  | 65.30   | 16.91                  |
| 2004 | 61.60   | 23.00   | 77.78                  | 0.00  | 61.60   | 16.56                  |
| 2005 | 62.80   | 50.80   | 83.73                  | 0.00  | 62.80   | 16.67                  |
| 2006 | 90.27   | 26.75   | 108.46                 | 0.00  | 90.27   | 19.29                  |
| 2007 | 0.00  | 0.00  | 9.35                   | 50.00   | 0.00  | 76.71                  |
| 2008 | 0.00  | 0.00  | 9.35                   | 50.00   | 0.00  | 76.71                  |
| 2009 | 0.00  | 0.00  | 9.35                   | 40.00   | 0.00  | 63.50                  |
| 2010 | 2.00  | 0.00  | 11.44                  | 3.60  | 2.00  | 15.62                  |
| 2011 | 4.40  | 12.80   | 16.12                  | 4.80  | 4.40  | 17.44                  |
| 2012 | 4.00  | 0.00  | 13.54                  | 18.00   | 4.00  | 34.83                  |
| 2013 | 2.58  | 5.32  | 12.95                  | 21.59   | 2.58  | 39.44                  |

|             | <b>43<sup>rd</sup> Week (22 to 28 Oct)</b>                       |  |                                       |
|-------------|--|--|---------------------------------------|
| <b>YEAR</b> | <b>Weekly RF of<br/>43<sup>rd</sup> -X<sub>1</sub> in<br/>mm</b> | <b>Weekly RF<br/>of 42<sup>nd</sup> -X<sub>2</sub> in<br/>mm</b> | <b>Computed<br/>runoff in<br/>MCM</b> |
| 1992        | 0.00   | 0.50   | 9.74                                  |
| 1993        | 0.00   | 9.20   | 9.17                                  |
| 1994        | 0.00   | 9.20   | 9.17                                  |
| 1995        | 0.00   | 29.00  | 7.87                                  |
| 1996        | 0.00   | 50.60  | 6.46                                  |
| 1997        | 0.00   | 12.60  | 8.95                                  |
| 1998        | 0.00   | 18.00  | 8.59                                  |
| 1999        | 0.00   | 18.44  | 8.56                                  |
| 2000        | 0.00   | 0.00   | 9.77                                  |
| 2001        | 0.00   | 0.00   | 9.77                                  |
| 2002        | 0.00   | 0.00   | 9.77                                  |
| 2003        | 0.00   | 0.00   | 9.77                                  |
| 2004        | 0.00   | 0.00   | 9.77                                  |
| 2005        | 0.00   | 0.00   | 9.77                                  |
| 2006        | 0.00   | 0.00   | 9.77                                  |
| 2007        | 0.00   | 50.00  | 6.50                                  |
| 2008        | 0.00   | 50.00  | 6.50                                  |
| 2009        | 5.40   | 40.00  | 14.08                                 |
| 2010        | 2.60   | 3.60   | 12.87                                 |
| 2011        | 0.00   | 4.80   | 9.46                                  |
| 2012        | 0.00   | 18.00  | 8.59                                  |
| 2013        | 1.37   | 21.59  | 10.12                                 |

## Annexure - VIII/2

| SUMMARY OF MONSOON GENERATED FLOW FOR WITHDRAWAL SITE IN MCM |      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                |                      |                      |                 |
|--|------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------|----------------------|----------------------|-----------------|
| Sl. No.  | Year | 23 <sup>rd</sup> | 24 <sup>th</sup> | 25 <sup>th</sup> | 26 <sup>th</sup> | 27 <sup>th</sup> | 28 <sup>th</sup> | 29 <sup>th</sup> | 30 <sup>th</sup> | 31 <sup>st</sup> | 32 <sup>nd</sup> | 33 <sup>rd</sup> | 34 <sup>th</sup> | 35 <sup>th</sup> | 36 <sup>th</sup> | 37 <sup>th</sup> | 38 <sup>th</sup> | 39 <sup>th</sup> | 40 <sup>th</sup> | 41 <sup>st</sup> | 42 <sup>nd</sup> | 43 <sup>rd</sup> | October Runoff | Total Monsoon Runoff | Runoff in Dec. Order | % Dependability |
| 1  | 1992 | 1.66             | 5.91             | 0.00             | 6.30             | 6.15             | 100.25           | 74.55            | 64.23            | 25.59            | 67.95            | 29.84            | 29.06            | 26.30            | 8.41             | 12.93            | 1.02             | 156.08           | 34.67            | 56.22            | 15.31            | 9.74             | 115.93         | 732.17               | 308.47               | 4.35            |
| 2  | 1993 | 0.00             | 2.58             | 26.24            | 33.01            | 8.01             | 8.18             | 29.89            | 34.97            | 17.36            | 109.19           | 9.67             | 69.01            | 45.77            | 45.25            | 31.96            | 3.32             | 26.16            | 16.08            | 37.38            | 25.25            | 9.17             | 87.88          | 588.45               | 270.76               | 8.70            |
| 3  | 1994 | 20.17            | 3.74             | 12.52            | 21.07            | 6.00             | 8.18             | 29.89            | 34.97            | 17.36            | 109.19           | 9.67             | 69.01            | 45.77            | 45.25            | 31.96            | 3.32             | 26.16            | 16.08            | 37.38            | 25.25            | 9.17             | 87.88          | 582.12               | 225.38               | 13.04           |
| 4  | 1995 | 0.00             | 5.92             | 50.79            | 52.93            | 24.02            | 31.01            | 57.79            | 68.73            | 31.90            | 114.83           | 17.00            | 150.42           | 47.50            | 96.00            | 56.00            | 26.33            | 64.85            | 60.23            | 14.24            | 48.98            | 7.87             | 131.32         | 1027.35              | 207.63               | 17.39           |
| 5  | 1996 | 11.06            | 0.00             | 62.87            | 58.43            | 22.13            | 14.39            | 12.77            | 16.52            | 13.92            | 32.39            | 25.68            | 126.80           | 11.55            | 131.41           | 63.72            | 2.42             | 69.65            | 3.22             | 9.92             | 77.50            | 6.46             | 97.10          | 772.83               | 199.76               | 21.74           |
| 6  | 1997 | 0.00             | 0.85             | 10.05            | 17.56            | 11.50            | 6.05             | 15.86            | 22.17            | 15.25            | 44.95            | 16.80            | 70.14            | 46.25            | 44.23            | 29.48            | 0.00             | 59.05            | 10.63            | 10.46            | 27.32            | 8.95             | 57.35          | 467.54               | 190.53               | 26.09           |
| 7  | 1998 | 0.00             | 7.78             | 0.00             | 6.63             | 6.44             | 46.23            | 38.44            | 45.62            | 21.64            | 79.48            | 0.00             | 116.57           | 25.79            | 63.13            | 46.33            | 7.85             | 67.88            | 68.62            | 14.92            | 34.45            | 8.59             | 126.58         | 706.40               | 177.74               | 30.43           |
| 8  | 1999 | 0.00             | 20.70            | 39.84            | 33.89            | 29.83            | 19.24            | 31.29            | 38.55            | 20.46            | 75.63            | 9.97             | 98.87            | 41.62            | 63.28            | 40.27            | 7.19             | 57.66            | 32.37            | 15.88            | 35.38            | 8.56             | 92.18          | 720.47               | 169.55               | 34.78           |
| 9  | 2000 | 13.15            | 4.94             | 37.52            | 44.17            | 4.00             | 0.00             | 0.86             | 6.86             | 53.36            | 14.41            | 107.15           | 24.93            | 14.24            | 6.02             | 22.32            | 9.61             | 3.41             | 71.52            | 108.62           | 19.21            | 9.77             | 209.12         | 576.05               | 169.24               | 39.13           |
| 10   | 2001 | 8.04             | 27.40            | 69.05            | 66.45            | 6.92             | 0.00             | 0.86             | 6.86             | 53.36            | 14.41            | 107.15           | 24.93            | 14.24            | 6.02             | 22.32            | 9.61             | 3.41             | 71.52            | 108.62           | 19.21            | 9.77             | 209.12         | 650.14               | 160.63               | 43.48           |
| 11   | 2002 | 0.00             | 4.57             | 4.20             | 11.95            | 14.47            | 0.29             | 7.16             | 31.29            | 79.40            | 5.79             | 267.20           | 52.11            | 18.03            | 12.25            | 26.06            | 11.89            | 4.72             | 36.52            | 185.99           | 26.50            | 9.77             | 258.79         | 810.19               | 158.06               | 47.83           |
| 12   | 2003 | 2.75             | 2.72             | 0.00             | 3.07             | 7.56             | 0.00             | 0.00             | 9.31             | 40.11            | 10.95            | 75.61            | 39.18            | 12.24            | 6.39             | 33.37            | 0.00             | 1.10             | 0.00             | 77.78            | 16.91            | 9.77             | 104.45         | 348.80               | 156.71               | 52.17           |
| 13   | 2004 | 1.72             | 12.67            | 96.04            | 94.69            | 0.93             | 0.72             | 4.57             | 9.18             | 42.82            | 16.01            | 59.20            | 33.24            | 8.67             | 13.58            | 23.75            | 20.09            | 7.03             | 49.29            | 77.78            | 16.56            | 9.77             | 153.40         | 598.32               | 154.97               | 56.52           |
| 14   | 2005 | 4.20             | 0.00             | 0.00             | 0.00             | 22.24            | 0.00             | 13.51            | 13.12            | 39.22            | 26.24            | 105.73           | 34.30            | 25.75            | 12.45            | 21.70            | 1.06             | 0.00             | 110.48           | 83.73            | 16.67            | 9.77             | 220.65         | 540.17               | 142.63               | 60.87           |
| 15   | 2006 | 58.59            | 0.00             | 3.72             | 15.18            | 6.77             | 0.00             | 5.90             | 14.69            | 52.16            | 14.89            | 123.10           | 36.90            | 14.65            | 11.71            | 24.14            | 12.54            | 4.50             | 57.54            | 108.46           | 19.29            | 9.77             | 195.07         | 594.51               | 131.26               | 65.22           |
| 16   | 2007 | 5.16             | 18.26            | 7.74             | 16.39            | 7.87             | 52.94            | 23.66            | 13.37            | 27.27            | 64.28            | 173.21           | 26.62            | 11.36            | 10.11            | 13.06            | 102.45           | 202.20           | 0.00             | 9.35             | 76.71            | 6.50             | 92.56          | 868.49               | 130.43               | 69.57           |
| 17   | 2008 | 10.51            | 10.70            | 29.57            | 34.36            | 12.34            | 52.94            | 23.66            | 13.37            | 27.27            | 64.28            | 173.21           | 26.62            | 11.36            | 10.11            | 13.06            | 102.45           | 202.20           | 0.00             | 9.35             | 76.71            | 6.50             | 92.56          | 910.56               | 129.10               | 73.91           |
| 18   | 2009 | 0.00             | 1.20             | 0.00             | 0.00             | 36.67            | 177.16           | 46.57            | 33.43            | 86.45            | 98.59            | 181.46           | 27.27            | 22.39            | 81.04            | 41.26            | 126.31           | 359.37           | 0.00             | 9.35             | 63.50            | 14.08            | 86.93          | 1406.10              | 127.71               | 78.26           |
| 19   | 2010 | 0.00             | 3.11             | 22.25            | 29.92            | 11.76            | 62.38            | 10.86            | 2.78             | 22.02            | 41.65            | 91.44            | 11.34            | 22.08            | 64.56            | 32.80            | 114.18           | 188.36           | 0.00             | 11.44            | 15.62            | 12.87            | 39.93          | 771.44               | 126.38               | 82.61           |
| 20   | 2011 | 0.00             | 11.44            | 30.73            | 33.40            | 21.57            | 49.99            | 16.09            | 10.20            | 38.20            | 52.22            | 15.23            | 9.85             | 14.71            | 54.12            | 34.70            | 106.15           | 150.57           | 22.15            | 16.12            | 17.44            | 9.46             | 65.16          | 714.31               | 118.50               | 86.96           |
| 21   | 2012 | 1.14             | 1.61             | 7.05             | 19.03            | 26.35            | 131.90           | 54.05            | 45.45            | 33.71            | 32.13            | 190.08           | 15.74            | 18.73            | 47.76            | 38.40            | 177.69           | 336.39           | 0.00             | 13.54            | 34.83            | 8.59             | 56.96          | 1234.18              | 102.57               | 91.30           |
| 22   | 2013 | 0.00             | 5.11             | 0.00             | 5.09             | 25.22            | 94.34            | 30.41            | 21.65            | 46.51            | 60.98            | 108.84           | 17.35            | 17.01            | 53.56            | 33.71            | 122.61           | 239.30           | 2.23             | 12.95            | 39.44            | 10.12            | 64.73          | 946.42               | 76.52                | 95.65           |

**Annexure - IX/1****22 YEARS NON MONSOON GENERATED SERIES FOR WITHDRAWAL SITE IN MCM**

| YEAR | 01 <sup>st</sup> Week (01 to 07 Jan) |                             |                        | 02 <sup>nd</sup> Week (08 to 14 Jan) |                             |                        |
|------|--------------------------------------|-----------------------------|------------------------|--------------------------------------|-----------------------------|------------------------|
|      | OCTOBER RUNOFF IN MCM                | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM | OCTOBER RUNOFF IN MCM                | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM |
| 1992 | 115.93                               | 732.17                      | 13.29                  | 115.93                               | 732.17                      | 14.17                  |
| 1993 | 87.88                                | 588.45                      | 10.46                  | 87.88                                | 588.45                      | 11.22                  |
| 1994 | 87.88                                | 582.12                      | 10.28                  | 87.88                                | 582.12                      | 11.01                  |
| 1995 | 131.32                               | 1027.35                     | 21.00                  | 131.32                               | 1027.35                     | 23.15                  |
| 1996 | 97.10                                | 772.83                      | 15.29                  | 97.10                                | 772.83                      | 16.86                  |
| 1997 | 57.35                                | 467.54                      | 8.40                   | 57.35                                | 467.54                      | 9.23                   |
| 1998 | 126.58                               | 706.40                      | 12.08                  | 126.58                               | 706.40                      | 12.55                  |
| 1999 | 92.18                                | 720.47                      | 14.03                  | 92.18                                | 720.47                      | 15.42                  |
| 2000 | 209.12                               | 576.05                      | 4.65                   | 209.12                               | 576.05                      | 2.38                   |
| 2001 | 209.12                               | 650.14                      | 6.76                   | 209.12                               | 650.14                      | 4.90                   |
| 2002 | 258.79                               | 810.19                      | 9.08                   | 258.79                               | 810.19                      | 6.90                   |
| 2003 | 104.45                               | 348.80                      | 2.90                   | 104.45                               | 348.80                      | 1.91                   |
| 2004 | 153.40                               | 598.32                      | 7.79                   | 153.40                               | 598.32                      | 7.01                   |
| 2005 | 220.65                               | 540.17                      | 3.11                   | 220.65                               | 540.17                      | 0.35                   |
| 2006 | 195.07                               | 594.51                      | 5.81                   | 195.07                               | 594.51                      | 3.98                   |
| 2007 | 92.56                                | 868.49                      | 18.22                  | 92.56                                | 868.49                      | 20.44                  |
| 2008 | 92.56                                | 910.56                      | 19.42                  | 92.56                                | 910.56                      | 21.87                  |
| 2009 | 86.93                                | 1406.10                     | 33.77                  | 86.93                                | 1406.10                     | 39.14                  |
| 2010 | 39.93                                | 771.44                      | 17.83                  | 39.93                                | 771.44                      | 20.79                  |
| 2011 | 65.16                                | 714.31                      | 15.07                  | 65.16                                | 714.31                      | 17.09                  |
| 2012 | 56.96                                | 1234.18                     | 30.23                  | 56.96                                | 1234.18                     | 35.36                  |
| 2013 | 64.73                                | 946.42                      | 21.69                  | 64.73                                | 946.42                      | 25.02                  |

| YEAR | 03 <sup>rd</sup> Week (15 to 21 Jan) |                             |                        | 04 <sup>th</sup> Week (22 to 28 Jan) |                             |                        |
|------|--------------------------------------|-----------------------------|------------------------|--------------------------------------|-----------------------------|------------------------|
|      | OCTOBER RUNOFF IN MCM                | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM | OCTOBER RUNOFF IN MCM                | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM |
| 1992 | 115.93                               | 732.17                      | 11.44                  | 115.93                               | 732.17                      | 0.00                   |
| 1993 | 87.88                                | 588.45                      | 9.32                   | 87.88                                | 588.45                      | 0.00                   |
| 1994 | 87.88                                | 582.12                      | 9.20                   | 87.88                                | 582.12                      | 0.00                   |
| 1995 | 131.32                               | 1027.35                     | 16.85                  | 131.32                               | 1027.35                     | 0.00                   |
| 1996 | 97.10                                | 772.83                      | 12.71                  | 97.10                                | 772.83                      | 0.00                   |
| 1997 | 57.35                                | 467.54                      | 7.72                   | 57.35                                | 467.54                      | 0.00                   |
| 1998 | 126.58                               | 706.40                      | 10.66                  | 126.58                               | 706.40                      | 0.00                   |
| 1999 | 92.18                                | 720.47                      | 11.81                  | 92.18                                | 720.47                      | 0.00                   |
| 2000 | 209.12                               | 576.05                      | 6.02                   | 209.12                               | 576.05                      | 51.88                  |
| 2001 | 209.12                               | 650.14                      | 7.48                   | 209.12                               | 650.14                      | 41.12                  |
| 2002 | 258.79                               | 810.19                      | 9.37                   | 258.79                               | 810.19                      | 47.22                  |
| 2003 | 104.45                               | 348.80                      | 4.20                   | 104.45                               | 348.80                      | 23.07                  |
| 2004 | 153.40                               | 598.32                      | 7.86                   | 153.40                               | 598.32                      | 15.75                  |
| 2005 | 220.65                               | 540.17                      | 5.03                   | 220.65                               | 540.17                      | 63.89                  |
| 2006 | 195.07                               | 594.51                      | 6.74                   | 195.07                               | 594.51                      | 40.90                  |
| 2007 | 92.56                                | 868.49                      | 14.71                  | 92.56                                | 868.49                      | 0.00                   |
| 2008 | 92.56                                | 910.56                      | 15.53                  | 92.56                                | 910.56                      | 0.00                   |
| 2009 | 86.93                                | 1406.10                     | 25.41                  | 86.93                                | 1406.10                     | 0.00                   |
| 2010 | 39.93                                | 771.44                      | 14.13                  | 39.93                                | 771.44                      | 0.00                   |
| 2011 | 65.16                                | 714.31                      | 12.37                  | 65.16                                | 714.31                      | 0.00                   |
| 2012 | 56.96                                | 1234.18                     | 22.79                  | 56.96                                | 1234.18                     | 0.00                   |
| 2013 | 64.73                                | 946.42                      | 16.94                  | 64.73                                | 946.42                      | 0.00                   |

| YEAR | 05 <sup>th</sup> Week (29 Jan to 04 Feb) |                             |                        | 06 <sup>th</sup> Week (05 to 11 Feb) |                             |                        |
|------|--|-----------------------------|------------------------|--------------------------------------|-----------------------------|------------------------|
|      | OCTOBER RUNOFF IN MCM                    | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM | OCTOBER RUNOFF IN MCM                | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM |
| 1992 | 115.93                                   | 732.17                      | 0.00                   | 115.93                               | 732.17                      | 20.18                  |
| 1993 | 87.88                                    | 588.45                      | 0.00                   | 87.88                                | 588.45                      | 17.15                  |
| 1994 | 87.88                                    | 582.12                      | 0.00                   | 87.88                                | 582.12                      | 16.65                  |
| 1995 | 131.32                                   | 1027.35                     | 0.00                   | 131.32                               | 1027.35                     | 38.83                  |
| 1996 | 97.10                                    | 772.83                      | 0.00                   | 97.10                                | 772.83                      | 28.91                  |
| 1997 | 57.35                                    | 467.54                      | 0.00                   | 57.35                                | 467.54                      | 16.64                  |
| 1998 | 126.58                                   | 706.40                      | 1.79                   | 126.58                               | 706.40                      | 15.03                  |
| 1999 | 92.18                                    | 720.47                      | 0.00                   | 92.18                                | 720.47                      | 26.25                  |
| 2000 | 209.12                                   | 576.05                      | 24.92                  | 209.12                               | 576.05                      | 0.00                   |
| 2001 | 209.12                                   | 650.14                      | 21.53                  | 209.12                               | 650.14                      | 0.00                   |
| 2002 | 258.79                                   | 810.19                      | 24.55                  | 258.79                               | 810.19                      | 0.00                   |
| 2003 | 104.45                                   | 348.80                      | 13.54                  | 104.45                               | 348.80                      | 0.00                   |
| 2004 | 153.40                                   | 598.32                      | 12.31                  | 153.40                               | 598.32                      | 0.00                   |
| 2005 | 220.65                                   | 540.17                      | 28.97                  | 220.65                               | 540.17                      | 0.00                   |
| 2006 | 195.07                                   | 594.51                      | 21.16                  | 195.07                               | 594.51                      | 0.00                   |
| 2007 | 92.56                                    | 868.49                      | 0.00                   | 92.56                                | 868.49                      | 37.76                  |
| 2008 | 92.56                                    | 910.56                      | 0.00                   | 92.56                                | 910.56                      | 41.06                  |
| 2009 | 86.93                                    | 1406.10                     | 0.00                   | 86.93                                | 1406.10                     | 81.62                  |
| 2010 | 39.93                                    | 771.44                      | 0.00                   | 39.93                                | 771.44                      | 45.62                  |
| 2011 | 65.16                                    | 714.31                      | 0.00                   | 65.16                                | 714.31                      | 33.71                  |
| 2012 | 56.96                                    | 1234.18                     | 0.00                   | 56.96                                | 1234.18                     | 76.93                  |
| 2013 | 64.73                                    | 946.42                      | 0.00                   | 64.73                                | 946.42                      | 52.06                  |



| YEAR | 07 <sup>th</sup> Week (12 to 18 Feb) |                             |                        | 08 <sup>th</sup> Week (19 to 25 Feb) |                             |                        |
|------|--------------------------------------|-----------------------------|------------------------|--------------------------------------|-----------------------------|------------------------|
|      | OCTOBER RUNOFF IN MCM                | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM | OCTOBER RUNOFF IN MCM                | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM |
| 1992 | 115.93                               | 732.17                      | 8.35                   | 115.93                               | 732.17                      | 4.45                   |
| 1993 | 87.88                                | 588.45                      | 6.46                   | 87.88                                | 588.45                      | 3.60                   |
| 1994 | 87.88                                | 582.12                      | 6.33                   | 87.88                                | 582.12                      | 3.49                   |
| 1995 | 131.32                               | 1027.35                     | 13.78                  | 131.32                               | 1027.35                     | 8.86                   |
| 1996 | 97.10                                | 772.83                      | 9.87                   | 97.10                                | 772.83                      | 6.38                   |
| 1997 | 57.35                                | 467.54                      | 5.13                   | 57.35                                | 467.54                      | 3.33                   |
| 1998 | 126.58                               | 706.40                      | 7.43                   | 126.58                               | 706.40                      | 3.31                   |
| 1999 | 92.18                                | 720.47                      | 8.99                   | 92.18                                | 720.47                      | 5.74                   |
| 2000 | 209.12                               | 576.05                      | 1.73                   | 209.12                               | 576.05                      | 0.00                   |
| 2001 | 209.12                               | 650.14                      | 3.24                   | 209.12                               | 650.14                      | 0.00                   |
| 2002 | 258.79                               | 810.19                      | 4.66                   | 258.79                               | 810.19                      | 0.00                   |
| 2003 | 104.45                               | 348.80                      | 0.97                   | 104.45                               | 348.80                      | 0.00                   |
| 2004 | 153.40                               | 598.32                      | 4.24                   | 153.40                               | 598.32                      | 0.00                   |
| 2005 | 220.65                               | 540.17                      | 0.58                   | 220.65                               | 540.17                      | 0.00                   |
| 2006 | 195.07                               | 594.51                      | 2.63                   | 195.07                               | 594.51                      | 0.00                   |
| 2007 | 92.56                                | 868.49                      | 11.98                  | 92.56                                | 868.49                      | 8.42                   |
| 2008 | 92.56                                | 910.56                      | 12.84                  | 92.56                                | 910.56                      | 9.18                   |
| 2009 | 86.93                                | 1406.10                     | 23.13                  | 86.93                                | 1406.10                     | 18.58                  |
| 2010 | 39.93                                | 771.44                      | 11.95                  | 39.93                                | 771.44                      | 9.98                   |
| 2011 | 65.16                                | 714.31                      | 9.86                   | 65.16                                | 714.31                      | 7.34                   |
| 2012 | 56.96                                | 1234.18                     | 20.74                  | 56.96                                | 1234.18                     | 17.34                  |
| 2013 | 64.73                                | 946.42                      | 14.60                  | 64.73                                | 946.42                      | 11.60                  |

| YEAR | 09 <sup>th</sup> Week (26 Feb to 04 Mar) |                             |                        | 10 <sup>th</sup> Week (05 to 11 Mar) |                             |                        |
|------|--|-----------------------------|------------------------|--------------------------------------|-----------------------------|------------------------|
|      | OCTOBER RUNOFF IN MCM                    | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM | OCTOBER RUNOFF IN MCM                | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM |
| 1992 | 115.93                                   | 732.17                      | 0.00                   | 115.93                               | 732.17                      | 10.22                  |
| 1993 | 87.88                                    | 588.45                      | 0.00                   | 87.88                                | 588.45                      | 8.28                   |
| 1994 | 87.88                                    | 582.12                      | 0.23                   | 87.88                                | 582.12                      | 8.08                   |
| 1995 | 131.32                                   | 1027.35                     | 0.00                   | 131.32                               | 1027.35                     | 18.21                  |
| 1996 | 97.10                                    | 772.83                      | 0.00                   | 97.10                                | 772.83                      | 13.31                  |
| 1997 | 57.35                                    | 467.54                      | 0.00                   | 57.35                                | 467.54                      | 7.30                   |
| 1998 | 126.58                                   | 706.40                      | 3.74                   | 126.58                               | 706.40                      | 8.39                   |
| 1999 | 92.18                                    | 720.47                      | 0.00                   | 92.18                                | 720.47                      | 12.10                  |
| 2000 | 209.12                                   | 576.05                      | 40.65                  | 209.12                               | 576.05                      | 0.00                   |
| 2001 | 209.12                                   | 650.14                      | 35.14                  | 209.12                               | 650.14                      | 0.00                   |
| 2002 | 258.79                                   | 810.19                      | 39.60                  | 258.79                               | 810.19                      | 0.00                   |
| 2003 | 104.45                                   | 348.80                      | 23.06                  | 104.45                               | 348.80                      | 0.00                   |
| 2004 | 153.40                                   | 598.32                      | 20.62                  | 153.40                               | 598.32                      | 2.39                   |
| 2005 | 220.65                                   | 540.17                      | 47.12                  | 220.65                               | 540.17                      | 0.00                   |
| 2006 | 195.07                                   | 594.51                      | 34.64                  | 195.07                               | 594.51                      | 0.00                   |
| 2007 | 92.56                                    | 868.49                      | 0.00                   | 92.56                                | 868.49                      | 16.80                  |
| 2008 | 92.56                                    | 910.56                      | 0.00                   | 92.56                                | 910.56                      | 18.15                  |
| 2009 | 86.93                                    | 1406.10                     | 0.00                   | 86.93                                | 1406.10                     | 34.54                  |
| 2010 | 39.93                                    | 771.44                      | 0.00                   | 39.93                                | 771.44                      | 18.68                  |
| 2011 | 65.16                                    | 714.31                      | 0.00                   | 65.16                                | 714.31                      | 14.46                  |
| 2012 | 56.96                                    | 1234.18                     | 0.00                   | 56.96                                | 1234.18                     | 31.88                  |
| 2013 | 64.73                                    | 946.42                      | 0.00                   | 64.73                                | 946.42                      | 21.93                  |

| YEAR | 11 <sup>th</sup> Week (12 to 18 Mar) |                             |                        | 12 <sup>th</sup> Week (19 to 25 Mar) |                             |                        |
|------|--------------------------------------|-----------------------------|------------------------|--------------------------------------|-----------------------------|------------------------|
|      | OCTOBER RUNOFF IN MCM                | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM | OCTOBER RUNOFF IN MCM                | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM |
| 1992 | 115.93                               | 732.17                      | 0.00                   | 115.93                               | 732.17                      | 6.14                   |
| 1993 | 87.88                                | 588.45                      | 0.00                   | 87.88                                | 588.45                      | 4.48                   |
| 1994 | 87.88                                | 582.12                      | 0.00                   | 87.88                                | 582.12                      | 4.50                   |
| 1995 | 131.32                               | 1027.35                     | 0.00                   | 131.32                               | 1027.35                     | 6.48                   |
| 1996 | 97.10                                | 772.83                      | 0.00                   | 97.10                                | 772.83                      | 4.67                   |
| 1997 | 57.35                                | 467.54                      | 0.00                   | 57.35                                | 467.54                      | 2.59                   |
| 1998 | 126.58                               | 706.40                      | 0.00                   | 126.58                               | 706.40                      | 6.98                   |
| 1999 | 92.18                                | 720.47                      | 0.00                   | 92.18                                | 720.47                      | 4.45                   |
| 2000 | 209.12                               | 576.05                      | 37.94                  | 209.12                               | 576.05                      | 13.31                  |
| 2001 | 209.12                               | 650.14                      | 29.70                  | 209.12                               | 650.14                      | 13.11                  |
| 2002 | 258.79                               | 810.19                      | 33.01                  | 258.79                               | 810.19                      | 16.29                  |
| 2003 | 104.45                               | 348.80                      | 18.73                  | 104.45                               | 348.80                      | 6.31                   |
| 2004 | 153.40                               | 598.32                      | 11.78                  | 153.40                               | 598.32                      | 9.21                   |
| 2005 | 220.65                               | 540.17                      | 46.83                  | 220.65                               | 540.17                      | 14.24                  |
| 2006 | 195.07                               | 594.51                      | 29.91                  | 195.07                               | 594.51                      | 12.24                  |
| 2007 | 92.56                                | 868.49                      | 0.00                   | 92.56                                | 868.49                      | 4.09                   |
| 2008 | 92.56                                | 910.56                      | 0.00                   | 92.56                                | 910.56                      | 3.98                   |
| 2009 | 86.93                                | 1406.10                     | 0.00                   | 86.93                                | 1406.10                     | 2.27                   |
| 2010 | 39.93                                | 771.44                      | 0.00                   | 39.93                                | 771.44                      | 0.53                   |
| 2011 | 65.16                                | 714.31                      | 0.00                   | 65.16                                | 714.31                      | 2.51                   |
| 2012 | 56.96                                | 1234.18                     | 0.00                   | 56.96                                | 1234.18                     | 0.55                   |
| 2013 | 64.73                                | 946.42                      | 0.00                   | 64.73                                | 946.42                      | 1.87                   |

| YEAR | 13 <sup>th</sup> Week (26 Mar to 01 Apr) |                             |                        | 14 <sup>th</sup> Week (02 to 08 Apr) |                             |                        |
|------|--|-----------------------------|------------------------|--------------------------------------|-----------------------------|------------------------|
|      | OCTOBER RUNOFF IN MCM                    | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM | OCTOBER RUNOFF IN MCM                | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM |
| 1992 | 115.93                                   | 732.17                      | 4.30                   | 115.93                               | 732.17                      | 3.12                   |
| 1993 | 87.88                                    | 588.45                      | 3.19                   | 87.88                                | 588.45                      | 2.37                   |
| 1994 | 87.88                                    | 582.12                      | 3.14                   | 87.88                                | 582.12                      | 2.31                   |
| 1995 | 131.32                                   | 1027.35                     | 6.57                   | 131.32                               | 1027.35                     | 5.47                   |
| 1996 | 97.10                                    | 772.83                      | 4.61                   | 97.10                                | 772.83                      | 3.85                   |
| 1997 | 57.35                                    | 467.54                      | 2.26                   | 57.35                                | 467.54                      | 1.87                   |
| 1998 | 126.58                                   | 706.40                      | 4.10                   | 126.58                               | 706.40                      | 2.69                   |
| 1999 | 92.18                                    | 720.47                      | 4.20                   | 92.18                                | 720.47                      | 3.47                   |
| 2000 | 209.12                                   | 576.05                      | 3.10                   | 209.12                               | 576.05                      | 0.00                   |
| 2001 | 209.12                                   | 650.14                      | 3.67                   | 209.12                               | 650.14                      | 0.61                   |
| 2002 | 258.79                                   | 810.19                      | 4.91                   | 258.79                               | 810.19                      | 1.10                   |
| 2003 | 104.45                                   | 348.80                      | 1.35                   | 104.45                               | 348.80                      | 0.00                   |
| 2004 | 153.40                                   | 598.32                      | 3.27                   | 153.40                               | 598.32                      | 1.21                   |
| 2005 | 220.65                                   | 540.17                      | 2.83                   | 220.65                               | 540.17                      | 0.00                   |
| 2006 | 195.07                                   | 594.51                      | 3.24                   | 195.07                               | 594.51                      | 0.38                   |
| 2007 | 92.56                                    | 868.49                      | 5.34                   | 92.56                                | 868.49                      | 4.79                   |
| 2008 | 92.56                                    | 910.56                      | 5.67                   | 92.56                                | 910.56                      | 5.17                   |
| 2009 | 86.93                                    | 1406.10                     | 9.48                   | 86.93                                | 1406.10                     | 9.71                   |
| 2010 | 39.93                                    | 771.44                      | 4.59                   | 39.93                                | 771.44                      | 4.92                   |
| 2011 | 65.16                                    | 714.31                      | 4.15                   | 65.16                                | 714.31                      | 3.93                   |
| 2012 | 56.96                                    | 1234.18                     | 8.15                   | 56.96                                | 1234.18                     | 8.74                   |
| 2013 | 64.73                                    | 946.42                      | 5.94                   | 64.73                                | 946.42                      | 6.02                   |

| YEAR | 15 <sup>th</sup> Week (09 to 15 Apr) |                             |                        | 16 <sup>th</sup> Week (16 to 22 Apr) |                             |                        |
|------|--------------------------------------|-----------------------------|------------------------|--------------------------------------|-----------------------------|------------------------|
|      | OCTOBER RUNOFF IN MCM                | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM | OCTOBER RUNOFF IN MCM                | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM |
| 1992 | 115.93                               | 732.17                      | 2.29                   | 115.93                               | 732.17                      | 2.78                   |
| 1993 | 87.88                                | 588.45                      | 1.84                   | 87.88                                | 588.45                      | 2.41                   |
| 1994 | 87.88                                | 582.12                      | 1.77                   | 87.88                                | 582.12                      | 2.31                   |
| 1995 | 131.32                               | 1027.35                     | 4.87                   | 131.32                               | 1027.35                     | 6.26                   |
| 1996 | 97.10                                | 772.83                      | 3.47                   | 97.10                                | 772.83                      | 4.60                   |
| 1997 | 57.35                                | 467.54                      | 1.73                   | 57.35                                | 467.54                      | 2.54                   |
| 1998 | 126.58                               | 706.40                      | 1.60                   | 126.58                               | 706.40                      | 1.71                   |
| 1999 | 92.18                                | 720.47                      | 3.10                   | 92.18                                | 720.47                      | 4.13                   |
| 2000 | 209.12                               | 576.05                      | 0.00                   | 209.12                               | 576.05                      | 0.00                   |
| 2001 | 209.12                               | 650.14                      | 0.00                   | 209.12                               | 650.14                      | 0.00                   |
| 2002 | 258.79                               | 810.19                      | 0.00                   | 258.79                               | 810.19                      | 0.00                   |
| 2003 | 104.45                               | 348.80                      | 0.00                   | 104.45                               | 348.80                      | 0.00                   |
| 2004 | 153.40                               | 598.32                      | 0.00                   | 153.40                               | 598.32                      | 0.00                   |
| 2005 | 220.65                               | 540.17                      | 0.00                   | 220.65                               | 540.17                      | 0.00                   |
| 2006 | 195.07                               | 594.51                      | 0.00                   | 195.07                               | 594.51                      | 0.00                   |
| 2007 | 92.56                                | 868.49                      | 4.67                   | 92.56                                | 868.49                      | 6.34                   |
| 2008 | 92.56                                | 910.56                      | 5.13                   | 92.56                                | 910.56                      | 6.97                   |
| 2009 | 86.93                                | 1406.10                     | 10.68                  | 86.93                                | 1406.10                     | 14.82                  |
| 2010 | 39.93                                | 771.44                      | 5.68                   | 39.93                                | 771.44                      | 8.24                   |
| 2011 | 65.16                                | 714.31                      | 4.08                   | 65.16                                | 714.31                      | 5.76                   |
| 2012 | 56.96                                | 1234.18                     | 10.00                  | 56.96                                | 1234.18                     | 14.14                  |
| 2013 | 64.73                                | 946.42                      | 6.60                   | 64.73                                | 946.42                      | 9.30                   |

| YEAR | 17 <sup>th</sup> Week (23 to 29 Apr) |                             |                        | 18 <sup>th</sup> Week (30 Apr to 06 May) |                             |                        |
|------|--------------------------------------|-----------------------------|------------------------|--|-----------------------------|------------------------|
|      | OCTOBER RUNOFF IN MCM                | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM | OCTOBER RUNOFF IN MCM                    | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM |
| 1992 | 115.93                               | 732.17                      | 1.97                   | 115.93                                   | 732.17                      | 1.16                   |
| 1993 | 87.88                                | 588.45                      | 1.78                   | 87.88                                    | 588.45                      | 0.91                   |
| 1994 | 87.88                                | 582.12                      | 1.69                   | 87.88                                    | 582.12                      | 0.89                   |
| 1995 | 131.32                               | 1027.35                     | 4.96                   | 131.32                                   | 1027.35                     | 1.94                   |
| 1996 | 97.10                                | 772.83                      | 3.67                   | 97.10                                    | 772.83                      | 1.40                   |
| 1997 | 57.35                                | 467.54                      | 2.04                   | 57.35                                    | 467.54                      | 0.75                   |
| 1998 | 126.58                               | 706.40                      | 0.97                   | 126.58                                   | 706.40                      | 1.01                   |
| 1999 | 92.18                                | 720.47                      | 3.27                   | 92.18                                    | 720.47                      | 1.28                   |
| 2000 | 209.12                               | 576.05                      | 0.00                   | 209.12                                   | 576.05                      | 0.09                   |
| 2001 | 209.12                               | 650.14                      | 0.00                   | 209.12                                   | 650.14                      | 0.31                   |
| 2002 | 258.79                               | 810.19                      | 0.00                   | 258.79                                   | 810.19                      | 0.47                   |
| 2003 | 104.45                               | 348.80                      | 0.00                   | 104.45                                   | 348.80                      | 0.09                   |
| 2004 | 153.40                               | 598.32                      | 0.00                   | 153.40                                   | 598.32                      | 0.52                   |
| 2005 | 220.65                               | 540.17                      | 0.00                   | 220.65                                   | 540.17                      | 0.00                   |
| 2006 | 195.07                               | 594.51                      | 0.00                   | 195.07                                   | 594.51                      | 0.24                   |
| 2007 | 92.56                                | 868.49                      | 5.23                   | 92.56                                    | 868.49                      | 1.72                   |
| 2008 | 92.56                                | 910.56                      | 5.79                   | 92.56                                    | 910.56                      | 1.84                   |
| 2009 | 86.93                                | 1406.10                     | 12.75                  | 86.93                                    | 1406.10                     | 3.36                   |
| 2010 | 39.93                                | 771.44                      | 7.17                   | 39.93                                    | 771.44                      | 1.77                   |
| 2011 | 65.16                                | 714.31                      | 4.85                   | 65.16                                    | 714.31                      | 1.44                   |
| 2012 | 56.96                                | 1234.18                     | 12.30                  | 56.96                                    | 1234.18                     | 3.04                   |
| 2013 | 64.73                                | 946.42                      | 7.98                   | 64.73                                    | 946.42                      | 2.13                   |

| YEAR | 19 <sup>th</sup> Week (07 to 13 May) |                             |                        | 20 <sup>th</sup> Week (14 to 20 May) |                             |                        |
|------|--------------------------------------|-----------------------------|------------------------|--------------------------------------|-----------------------------|------------------------|
|      | OCTOBER RUNOFF IN MCM                | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM | OCTOBER RUNOFF IN MCM                | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM |
| 1992 | 115.93                               | 732.17                      | 2.03                   | 115.93                               | 732.17                      | 1.01                   |
| 1993 | 87.88                                | 588.45                      | 1.60                   | 87.88                                | 588.45                      | 0.87                   |
| 1994 | 87.88                                | 582.12                      | 1.56                   | 87.88                                | 582.12                      | 0.81                   |
| 1995 | 131.32                               | 1027.35                     | 3.63                   | 131.32                               | 1027.35                     | 3.06                   |
| 1996 | 97.10                                | 772.83                      | 2.60                   | 97.10                                | 772.83                      | 2.16                   |
| 1997 | 57.35                                | 467.54                      | 1.34                   | 57.35                                | 467.54                      | 1.04                   |
| 1998 | 126.58                               | 706.40                      | 1.70                   | 126.58                               | 706.40                      | 0.33                   |
| 1999 | 92.18                                | 720.47                      | 2.35                   | 92.18                                | 720.47                      | 1.89                   |
| 2000 | 209.12                               | 576.05                      | 0.00                   | 209.12                               | 576.05                      | 0.00                   |
| 2001 | 209.12                               | 650.14                      | 0.00                   | 209.12                               | 650.14                      | 0.00                   |
| 2002 | 258.79                               | 810.19                      | 0.18                   | 258.79                               | 810.19                      | 0.00                   |
| 2003 | 104.45                               | 348.80                      | 0.00                   | 104.45                               | 348.80                      | 0.00                   |
| 2004 | 153.40                               | 598.32                      | 0.58                   | 153.40                               | 598.32                      | 0.00                   |
| 2005 | 220.65                               | 540.17                      | 0.00                   | 220.65                               | 540.17                      | 0.00                   |
| 2006 | 195.07                               | 594.51                      | 0.00                   | 195.07                               | 594.51                      | 0.00                   |
| 2007 | 92.56                                | 868.49                      | 3.27                   | 92.56                                | 868.49                      | 3.23                   |
| 2008 | 92.56                                | 910.56                      | 3.53                   | 92.56                                | 910.56                      | 3.61                   |
| 2009 | 86.93                                | 1406.10                     | 6.72                   | 86.93                                | 1406.10                     | 8.36                   |
| 2010 | 39.93                                | 771.44                      | 3.53                   | 39.93                                | 771.44                      | 4.53                   |
| 2011 | 65.16                                | 714.31                      | 2.76                   | 65.16                                | 714.31                      | 2.96                   |
| 2012 | 56.96                                | 1234.18                     | 6.14                   | 56.96                                | 1234.18                     | 8.04                   |
| 2013 | 64.73                                | 946.42                      | 4.21                   | 64.73                                | 946.42                      | 5.10                   |

| YEAR | 21 <sup>st</sup> Week (21 to 27 May) |                             |                        | 22 <sup>nd</sup> Week (28 May to 03 Jun) |                             |                        |
|------|--------------------------------------|-----------------------------|------------------------|--|-----------------------------|------------------------|
|      | OCTOBER RUNOFF IN MCM                | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM | OCTOBER RUNOFF IN MCM                    | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM |
| 1992 | 115.93                               | 732.17                      | 2.64                   | 115.93                                   | 732.17                      | 11.16                  |
| 1993 | 87.88                                | 588.45                      | 2.21                   | 87.88                                    | 588.45                      | 9.55                   |
| 1994 | 87.88                                | 582.12                      | 2.14                   | 87.88                                    | 582.12                      | 9.28                   |
| 1995 | 131.32                               | 1027.35                     | 5.19                   | 131.32                                   | 1027.35                     | 21.42                  |
| 1996 | 97.10                                | 772.83                      | 3.81                   | 97.10                                    | 772.83                      | 16.03                  |
| 1997 | 57.35                                | 467.54                      | 2.11                   | 57.35                                    | 467.54                      | 9.35                   |
| 1998 | 126.58                               | 706.40                      | 1.95                   | 126.58                                   | 706.40                      | 8.28                   |
| 1999 | 92.18                                | 720.47                      | 3.45                   | 92.18                                    | 720.47                      | 14.57                  |
| 2000 | 209.12                               | 576.05                      | 0.00                   | 209.12                                   | 576.05                      | 0.00                   |
| 2001 | 209.12                               | 650.14                      | 0.00                   | 209.12                                   | 650.14                      | 0.00                   |
| 2002 | 258.79                               | 810.19                      | 0.00                   | 258.79                                   | 810.19                      | 0.00                   |
| 2003 | 104.45                               | 348.80                      | 0.00                   | 104.45                                   | 348.80                      | 0.00                   |
| 2004 | 153.40                               | 598.32                      | 0.00                   | 153.40                                   | 598.32                      | 0.00                   |
| 2005 | 220.65                               | 540.17                      | 0.00                   | 220.65                                   | 540.17                      | 0.00                   |
| 2006 | 195.07                               | 594.51                      | 0.00                   | 195.07                                   | 594.51                      | 0.00                   |
| 2007 | 92.56                                | 868.49                      | 5.01                   | 92.56                                    | 868.49                      | 20.93                  |
| 2008 | 92.56                                | 910.56                      | 5.46                   | 92.56                                    | 910.56                      | 22.76                  |
| 2009 | 86.93                                | 1406.10                     | 10.98                  | 86.93                                    | 1406.10                     | 45.19                  |
| 2010 | 39.93                                | 771.44                      | 6.04                   | 39.93                                    | 771.44                      | 25.41                  |
| 2011 | 65.16                                | 714.31                      | 4.44                   | 65.16                                    | 714.31                      | 18.77                  |
| 2012 | 56.96                                | 1234.18                     | 10.32                  | 56.96                                    | 1234.18                     | 42.68                  |
| 2013 | 64.73                                | 946.42                      | 6.94                   | 64.73                                    | 946.42                      | 28.91                  |



| YEAR | 44 <sup>th</sup> Week (29 Oct to 04 Nov) |                             |                        | 45 <sup>th</sup> Week (05 to 11 Nov) |                             |                        |
|------|--|-----------------------------|------------------------|--------------------------------------|-----------------------------|------------------------|
|      | OCTOBER RUNOFF IN MCM                    | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM | OCTOBER RUNOFF IN MCM                | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM |
| 1992 | 115.93                                   | 732.17                      | 25.13                  | 115.93                               | 732.17                      | 18.52                  |
| 1993 | 87.88                                    | 588.45                      | 20.32                  | 87.88                                | 588.45                      | 16.11                  |
| 1994 | 87.88                                    | 582.12                      | 19.83                  | 87.88                                | 582.12                      | 15.58                  |
| 1995 | 131.32                                   | 1027.35                     | 44.32                  | 131.32                               | 1027.35                     | 38.10                  |
| 1996 | 97.10                                    | 772.83                      | 32.39                  | 97.10                                | 772.83                      | 28.47                  |
| 1997 | 57.35                                    | 467.54                      | 17.79                  | 57.35                                | 467.54                      | 16.48                  |
| 1998 | 126.58                                   | 706.40                      | 20.81                  | 126.58                               | 706.40                      | 12.66                  |
| 1999 | 92.18                                    | 720.47                      | 29.47                  | 92.18                                | 720.47                      | 25.76                  |
| 2000 | 209.12                                   | 576.05                      | 0.00                   | 209.12                               | 576.05                      | 0.00                   |
| 2001 | 209.12                                   | 650.14                      | 0.00                   | 209.12                               | 650.14                      | 0.00                   |
| 2002 | 258.79                                   | 810.19                      | 0.00                   | 258.79                               | 810.19                      | 0.00                   |
| 2003 | 104.45                                   | 348.80                      | 0.00                   | 104.45                               | 348.80                      | 0.00                   |
| 2004 | 153.40                                   | 598.32                      | 6.64                   | 153.40                               | 598.32                      | 0.00                   |
| 2005 | 220.65                                   | 540.17                      | 0.00                   | 220.65                               | 540.17                      | 0.00                   |
| 2006 | 195.07                                   | 594.51                      | 0.00                   | 195.07                               | 594.51                      | 0.00                   |
| 2007 | 92.56                                    | 868.49                      | 40.71                  | 92.56                                | 868.49                      | 38.12                  |
| 2008 | 92.56                                    | 910.56                      | 43.92                  | 92.56                                | 910.56                      | 41.67                  |
| 2009 | 86.93                                    | 1406.10                     | 83.07                  | 86.93                                | 1406.10                     | 85.43                  |
| 2010 | 39.93                                    | 771.44                      | 44.88                  | 39.93                                | 771.44                      | 48.15                  |
| 2011 | 65.16                                    | 714.31                      | 34.95                  | 65.16                                | 714.31                      | 34.60                  |
| 2012 | 56.96                                    | 1234.18                     | 76.52                  | 56.96                                | 1234.18                     | 81.30                  |
| 2013 | 64.73                                    | 946.42                      | 52.80                  | 64.73                                | 946.42                      | 54.33                  |

| YEAR | 46 <sup>th</sup> Week (12 to 18 Nov) |                             |                        | 47 <sup>th</sup> Week (19 to 25 Nov) |                             |                        |
|------|--------------------------------------|-----------------------------|------------------------|--------------------------------------|-----------------------------|------------------------|
|      | OCTOBER RUNOFF IN MCM                | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM | OCTOBER RUNOFF IN MCM                | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM |
| 1992 | 115.93                               | 732.17                      | 15.68                  | 115.93                               | 732.17                      | 3.26                   |
| 1993 | 87.88                                | 588.45                      | 13.51                  | 87.88                                | 588.45                      | 2.50                   |
| 1994 | 87.88                                | 582.12                      | 13.06                  | 87.88                                | 582.12                      | 2.48                   |
| 1995 | 131.32                               | 1027.35                     | 32.25                  | 131.32                               | 1027.35                     | 4.43                   |
| 1996 | 97.10                                | 772.83                      | 23.98                  | 97.10                                | 772.83                      | 3.23                   |
| 1997 | 57.35                                | 467.54                      | 13.68                  | 57.35                                | 467.54                      | 1.79                   |
| 1998 | 126.58                               | 706.40                      | 10.79                  | 126.58                               | 706.40                      | 3.27                   |
| 1999 | 92.18                                | 720.47                      | 21.67                  | 92.18                                | 720.47                      | 3.00                   |
| 2000 | 209.12                               | 576.05                      | 0.00                   | 209.12                               | 576.05                      | 3.59                   |
| 2001 | 209.12                               | 650.14                      | 0.00                   | 209.12                               | 650.14                      | 3.85                   |
| 2002 | 258.79                               | 810.19                      | 0.00                   | 258.79                               | 810.19                      | 4.87                   |
| 2003 | 104.45                               | 348.80                      | 0.00                   | 104.45                               | 348.80                      | 1.82                   |
| 2004 | 153.40                               | 598.32                      | 0.00                   | 153.40                               | 598.32                      | 3.15                   |
| 2005 | 220.65                               | 540.17                      | 0.00                   | 220.65                               | 540.17                      | 3.57                   |
| 2006 | 195.07                               | 594.51                      | 0.00                   | 195.07                               | 594.51                      | 3.52                   |
| 2007 | 92.56                                | 868.49                      | 32.09                  | 92.56                                | 868.49                      | 3.52                   |
| 2008 | 92.56                                | 910.56                      | 35.08                  | 92.56                                | 910.56                      | 3.66                   |
| 2009 | 86.93                                | 1406.10                     | 71.95                  | 86.93                                | 1406.10                     | 5.34                   |
| 2010 | 39.93                                | 771.44                      | 40.31                  | 39.93                                | 771.44                      | 2.69                   |
| 2011 | 65.16                                | 714.31                      | 29.00                  | 65.16                                | 714.31                      | 2.72                   |
| 2012 | 56.96                                | 1234.18                     | 68.33                  | 56.96                                | 1234.18                     | 4.46                   |
| 2013 | 64.73                                | 946.42                      | 45.63                  | 64.73                                | 946.42                      | 3.53                   |

| YEAR | 48 <sup>th</sup> Week (26 Nov to 02 Dec) |                             |                        | 49 <sup>th</sup> Week (03 to 09 Dec) |                             |                        |
|------|--|-----------------------------|------------------------|--------------------------------------|-----------------------------|------------------------|
|      | OCTOBER RUNOFF IN MCM                    | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM | OCTOBER RUNOFF IN MCM                | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM |
| 1992 | 115.93                                   | 732.17                      | 2.45                   | 115.93                               | 732.17                      | 3.61                   |
| 1993 | 87.88                                    | 588.45                      | 1.92                   | 87.88                                | 588.45                      | 2.87                   |
| 1994 | 87.88                                    | 582.12                      | 1.89                   | 87.88                                | 582.12                      | 2.82                   |
| 1995 | 131.32                                   | 1027.35                     | 3.57                   | 131.32                               | 1027.35                     | 5.78                   |
| 1996 | 97.10                                    | 772.83                      | 2.61                   | 97.10                                | 772.83                      | 4.23                   |
| 1997 | 57.35                                    | 467.54                      | 1.47                   | 57.35                                | 467.54                      | 2.36                   |
| 1998 | 126.58                                   | 706.40                      | 2.35                   | 126.58                               | 706.40                      | 3.24                   |
| 1999 | 92.18                                    | 720.47                      | 2.41                   | 92.18                                | 720.47                      | 3.88                   |
| 2000 | 209.12                                   | 576.05                      | 1.84                   | 209.12                               | 576.05                      | 0.92                   |
| 2001 | 209.12                                   | 650.14                      | 2.12                   | 209.12                               | 650.14                      | 1.53                   |
| 2002 | 258.79                                   | 810.19                      | 2.71                   | 258.79                               | 810.19                      | 2.07                   |
| 2003 | 104.45                                   | 348.80                      | 1.00                   | 104.45                               | 348.80                      | 0.67                   |
| 2004 | 153.40                                   | 598.32                      | 1.94                   | 153.40                               | 598.32                      | 1.95                   |
| 2005 | 220.65                                   | 540.17                      | 1.70                   | 220.65                               | 540.17                      | 0.46                   |
| 2006 | 195.07                                   | 594.51                      | 1.91                   | 195.07                               | 594.51                      | 1.29                   |
| 2007 | 92.56                                    | 868.49                      | 2.97                   | 92.56                                | 868.49                      | 5.08                   |
| 2008 | 92.56                                    | 910.56                      | 3.13                   | 92.56                                | 910.56                      | 5.42                   |
| 2009 | 86.93                                    | 1406.10                     | 5.01                   | 86.93                                | 1406.10                     | 9.53                   |
| 2010 | 39.93                                    | 771.44                      | 2.62                   | 39.93                                | 771.44                      | 5.09                   |
| 2011 | 65.16                                    | 714.31                      | 2.40                   | 65.16                                | 714.31                      | 4.24                   |
| 2012 | 56.96                                    | 1234.18                     | 4.37                   | 56.96                                | 1234.18                     | 8.59                   |
| 2013 | 64.73                                    | 946.42                      | 3.28                   | 64.73                                | 946.42                      | 6.13                   |

| YEAR | 50 <sup>th</sup> Week (10 to 16 Dec) |                             |                        | 51 <sup>st</sup> Week (17 to 23 Dec) |                             |                        |
|------|--------------------------------------|-----------------------------|------------------------|--------------------------------------|-----------------------------|------------------------|
|      | OCTOBER RUNOFF IN MCM                | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM | OCTOBER RUNOFF IN MCM                | TOTAL MONSOON RUNOFF IN MCM | Computed runoff in MCM |
| 1992 | 115.93                               | 732.17                      | 4.65                   | 115.93                               | 732.17                      | 4.38                   |
| 1993 | 87.88                                | 588.45                      | 3.72                   | 87.88                                | 588.45                      | 3.55                   |
| 1994 | 87.88                                | 582.12                      | 3.65                   | 87.88                                | 582.12                      | 3.47                   |
| 1995 | 131.32                               | 1027.35                     | 7.42                   | 131.32                               | 1027.35                     | 7.63                   |
| 1996 | 97.10                                | 772.83                      | 5.45                   | 97.10                                | 772.83                      | 5.60                   |
| 1997 | 57.35                                | 467.54                      | 3.07                   | 57.35                                | 467.54                      | 3.11                   |
| 1998 | 126.58                               | 706.40                      | 4.17                   | 126.58                               | 706.40                      | 3.66                   |
| 1999 | 92.18                                | 720.47                      | 5.00                   | 92.18                                | 720.47                      | 5.10                   |
| 2000 | 209.12                               | 576.05                      | 1.18                   | 209.12                               | 576.05                      | 0.00                   |
| 2001 | 209.12                               | 650.14                      | 1.95                   | 209.12                               | 650.14                      | 0.00                   |
| 2002 | 258.79                               | 810.19                      | 2.63                   | 258.79                               | 810.19                      | 0.15                   |
| 2003 | 104.45                               | 348.80                      | 0.89                   | 104.45                               | 348.80                      | 0.00                   |
| 2004 | 153.40                               | 598.32                      | 2.52                   | 153.40                               | 598.32                      | 1.28                   |
| 2005 | 220.65                               | 540.17                      | 0.58                   | 220.65                               | 540.17                      | 0.00                   |
| 2006 | 195.07                               | 594.51                      | 1.65                   | 195.07                               | 594.51                      | 0.00                   |
| 2007 | 92.56                                | 868.49                      | 6.54                   | 92.56                                | 868.49                      | 7.00                   |
| 2008 | 92.56                                | 910.56                      | 6.97                   | 92.56                                | 910.56                      | 7.55                   |
| 2009 | 86.93                                | 1406.10                     | 12.24                  | 86.93                                | 1406.10                     | 14.16                  |
| 2010 | 39.93                                | 771.44                      | 6.57                   | 39.93                                | 771.44                      | 7.68                   |
| 2011 | 65.16                                | 714.31                      | 5.48                   | 65.16                                | 714.31                      | 6.02                   |
| 2012 | 56.96                                | 1234.18                     | 11.05                  | 56.96                                | 1234.18                     | 13.04                  |
| 2013 | 64.73                                | 946.42                      | 7.90                   | 64.73                                | 946.42                      | 9.03                   |

|             | <b>52<sup>nd</sup> Week (24 to 31 Dec)</b> |  |                                       |
|-------------|--|--|---------------------------------------|
| <b>YEAR</b> | <b>OCTOBER<br/>RUNOFF IN<br/>MCM</b>       | <b>TOTAL<br/>MONSOON<br/>RUNOFF IN<br/>MCM</b> | <b>Computed<br/>runoff in<br/>MCM</b> |
| 1992        | 115.93                                     | 732.17   | 21.02                                 |
| 1993        | 87.88                                      | 588.45   | 16.80                                 |
| 1994        | 87.88                                      | 582.12   | 16.44                                 |
| 1995        | 131.32                                     | 1027.35  | 35.68                                 |
| 1996        | 97.10                                      | 772.83   | 26.01                                 |
| 1997        | 57.35                                      | 467.54   | 14.23                                 |
| 1998        | 126.58                                     | 706.40   | 18.05                                 |
| 1999        | 92.18                                      | 720.47   | 23.72                                 |
| 2000        | 209.12                                     | 576.05   | 0.00                                  |
| 2001        | 209.12                                     | 650.14   | 3.16                                  |
| 2002        | 258.79                                     | 810.19   | 5.26                                  |
| 2003        | 104.45                                     | 348.80   | 0.79                                  |
| 2004        | 153.40                                     | 598.32   | 8.09                                  |
| 2005        | 220.65                                     | 540.17   | 0.00                                  |
| 2006        | 195.07                                     | 594.51   | 1.98                                  |
| 2007        | 92.56                                      | 868.49   | 32.11                                 |
| 2008        | 92.56                                      | 910.56   | 34.50                                 |
| 2009        | 86.93                                      | 1406.10  | 63.56                                 |
| 2010        | 39.93                                      | 771.44   | 34.02                                 |
| 2011        | 65.16                                      | 714.31   | 27.19                                 |
| 2012        | 56.96                                      | 1234.18  | 57.99                                 |
| 2013        | 64.73                                      | 946.42   | 40.49                                 |

Annexure - IX/2

SUMMARY OF GENERATED MONSOON, NON - MONSOON, 75% AND 90% DEPENDABILITY FLOW FOR WITHDRAWAL SITE IN MCM

| Sl. No. | Year | 1 <sup>st</sup> | 2 <sup>nd</sup> | 3 <sup>rd</sup> | 4 <sup>th</sup> | 5 <sup>th</sup> | 6 <sup>th</sup> | 7 <sup>th</sup> | 8 <sup>th</sup> | 9 <sup>th</sup> | 10 <sup>th</sup> | 11 <sup>th</sup> | 12 <sup>th</sup> | 13 <sup>th</sup> | 14 <sup>th</sup> | 15 <sup>th</sup> | 16 <sup>th</sup> | 17 <sup>th</sup> | 18 <sup>th</sup> | 19 <sup>th</sup> | 20 <sup>th</sup> | 21 <sup>st</sup> | 22 <sup>nd</sup> | 23 <sup>rd</sup> | 24 <sup>th</sup> | 25 <sup>th</sup> | 26 <sup>th</sup> | 27 <sup>th</sup> | 28 <sup>th</sup> | 29 <sup>th</sup> | 30 <sup>th</sup> | 31 <sup>st</sup> | 32 <sup>nd</sup> | 33 <sup>rd</sup> | 34 <sup>th</sup> | 35 <sup>th</sup> | 36 <sup>th</sup> | 37 <sup>th</sup> | 38 <sup>th</sup> | 39 <sup>th</sup> | 40 <sup>th</sup> | 41 <sup>st</sup> | 42 <sup>nd</sup> | 43 <sup>rd</sup> | 44 <sup>th</sup> | 45 <sup>th</sup> | 46 <sup>th</sup> | 47 <sup>th</sup> | 48 <sup>th</sup> | 49 <sup>th</sup> | 50 <sup>th</sup> | 51 <sup>st</sup> | 52 <sup>nd</sup> | Total Yearly Runoff | Runoff in Descending Order | % Dependability |       |
|---------|------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---------------------|----------------------------|-----------------|-------|
| 1       | 1992 | 13.29           | 14.17           | 11.44           | 0.00            | 0.00            | 20.18           | 8.35            | 4.45            | 0.00            | 10.22            | 0.00             | 6.14             | 4.30             | 3.12             | 2.29             | 2.78             | 1.97             | 1.16             | 2.03             | 1.01             | 2.64             | 11.16            | 1.66             | 5.91             | 0.00             | 6.30             | 6.15             | 100.25           | 74.55            | 64.23            | 25.59            | 67.95            | 29.84            | 29.06            | 26.30            | 8.41             | 12.93            | 1.02             | 156.08           | 34.67            | 56.22            | 15.31            | 9.74             | 25.13            | 18.52            | 15.68            | 3.26             | 2.45             | 3.61             | 4.65             | 4.38             | 21.02            | 951.59              | 2146.88                    | 4.35            |       |
| 2       | 1993 | 10.46           | 11.22           | 9.32            | 0.00            | 0.00            | 17.15           | 6.46            | 3.60            | 0.00            | 8.28             | 0.00             | 4.48             | 3.19             | 2.37             | 1.84             | 2.41             | 1.78             | 0.91             | 1.60             | 0.87             | 2.21             | 9.55             | 0.00             | 2.58             | 26.24            | 33.01            | 8.01             | 8.18             | 29.89            | 34.97            | 17.36            | 109.19           | 9.67             | 69.01            | 45.77            | 45.25            | 31.96            | 3.32             | 26.16            | 16.08            | 37.38            | 25.25            | 9.17             | 20.32            | 16.11            | 13.51            | 2.50             | 1.92             | 2.87             | 3.72             | 3.55             | 16.80            | 767.46              | 1919.20                    | 8.70            |       |
| 3       | 1994 | 10.28           | 11.01           | 9.20            | 0.00            | 0.00            | 16.65           | 6.33            | 3.49            | 0.23            | 8.08             | 0.00             | 4.50             | 3.14             | 2.31             | 1.77             | 2.31             | 1.69             | 0.89             | 1.56             | 0.81             | 2.14             | 9.28             | 20.17            | 3.74             | 12.52            | 21.07            | 6.00             | 8.18             | 29.89            | 34.97            | 17.36            | 109.19           | 9.67             | 69.01            | 45.77            | 45.25            | 31.96            | 3.32             | 26.16            | 16.08            | 37.38            | 25.25            | 9.17             | 19.83            | 15.58            | 13.06            | 2.48             | 1.89             | 2.82             | 3.65             | 3.47             | 16.44            | 757.02              | 1418.37                    | 13.04           |       |
| 4       | 1995 | 21.00           | 23.15           | 16.85           | 0.00            | 0.00            | 38.83           | 13.78           | 8.86            | 0.00            | 18.21            | 0.00             | 6.48             | 6.57             | 5.47             | 4.87             | 6.26             | 4.96             | 1.94             | 3.63             | 3.06             | 5.19             | 21.42            | 0.00             | 5.92             | 50.79            | 52.93            | 24.02            | 31.01            | 57.79            | 68.73            | 31.90            | 114.83           | 17.00            | 150.42           | 47.50            | 96.00            | 56.00            | 26.33            | 64.85            | 60.23            | 14.24            | 48.98            | 7.87             | 44.32            | 38.10            | 32.25            | 4.43             | 3.57             | 5.78             | 7.42             | 7.63             | 35.68            | 1417.07             | 1417.07                    | 17.39           |       |
| 5       | 1996 | 15.29           | 16.86           | 12.71           | 0.00            | 0.00            | 28.91           | 9.87            | 6.38            | 0.00            | 13.31            | 0.00             | 4.67             | 4.61             | 3.85             | 3.47             | 4.60             | 3.67             | 1.40             | 2.60             | 2.16             | 3.81             | 16.03            | 11.06            | 0.00             | 62.87            | 58.43            | 22.13            | 14.39            | 12.77            | 16.52            | 13.92            | 32.39            | 25.68            | 126.80           | 11.55            | 131.41           | 63.72            | 2.42             | 69.65            | 3.22             | 9.92             | 77.50            | 6.46             | 32.39            | 28.47            | 23.98            | 3.23             | 2.61             | 4.23             | 5.45             | 5.60             | 26.01            | 1059.00             | 1300.43                    | 21.74           |       |
| 6       | 1997 | 8.40            | 9.23            | 7.72            | 0.00            | 0.00            | 16.64           | 5.13            | 3.33            | 0.00            | 7.30             | 0.00             | 2.59             | 2.26             | 1.87             | 1.73             | 2.54             | 2.04             | 0.75             | 1.34             | 1.04             | 2.11             | 9.35             | 0.00             | 0.85             | 10.05            | 17.56            | 11.50            | 6.05             | 15.86            | 22.17            | 15.25            | 44.95            | 16.80            | 70.14            | 46.25            | 44.23            | 29.48            | 0.00             | 59.05            | 10.63            | 10.46            | 27.32            | 8.95             | 17.79            | 16.48            | 13.68            | 1.79             | 1.47             | 2.36             | 3.07             | 3.11             | 14.23            | 626.86              | 1229.57                    | 26.09           |       |
| 7       | 1998 | 12.08           | 12.55           | 10.66           | 0.00            | 1.79            | 15.03           | 7.43            | 3.31            | 3.74            | 8.39             | 0.00             | 6.98             | 4.10             | 2.69             | 1.60             | 1.71             | 0.97             | 1.01             | 1.70             | 0.33             | 1.95             | 8.28             | 0.00             | 7.78             | 0.00             | 6.63             | 6.44             | 46.23            | 38.44            | 45.62            | 21.64            | 79.48            | 0.00             | 116.57           | 25.79            | 63.13            | 46.33            | 7.85             | 67.88            | 68.62            | 14.92            | 34.45            | 8.59             | 20.81            | 12.66            | 10.79            | 3.27             | 2.35             | 3.24             | 4.17             | 3.66             | 18.05            | 891.70              | 1174.83                    | 30.43           |       |
| 8       | 1999 | 14.03           | 15.42           | 11.81           | 0.00            | 0.00            | 26.25           | 8.99            | 5.74            | 0.00            | 12.10            | 0.00             | 4.45             | 4.20             | 3.47             | 3.10             | 4.13             | 3.27             | 1.28             | 2.35             | 1.89             | 3.45             | 14.57            | 0.00             | 20.70            | 39.84            | 33.89            | 29.83            | 19.24            | 31.29            | 38.55            | 20.46            | 75.63            | 9.97             | 98.87            | 41.62            | 63.28            | 40.27            | 7.19             | 57.66            | 32.37            | 15.88            | 35.38            | 8.56             | 29.47            | 25.76            | 21.67            | 3.00             | 2.41             | 3.88             | 5.00             | 5.10             | 23.72            | 980.96              | 1059.00                    | 34.78           |       |
| 9       | 2000 | 4.65            | 2.38            | 6.02            | 51.88           | 24.92           | 0.00            | 1.73            | 0.00            | 40.65           | 0.00             | 37.94            | 13.31            | 3.10             | 0.00             | 0.00             | 0.00             | 0.00             | 0.09             | 0.00             | 0.00             | 0.00             | 0.00             | 13.15            | 4.94             | 37.52            | 44.17            | 4.00             | 0.00             | 0.86             | 6.86             | 53.36            | 14.41            | 107.15           | 24.93            | 14.24            | 6.02             | 22.32            | 9.61             | 3.41             | 71.52            | 108.62           | 19.21            | 9.77             | 0.00             | 0.00             | 0.00             | 3.59             | 1.84             | 0.92             | 1.18             | 0.00             | 0.00             | 0.00                | 770.24                     | 1026.45         | 39.13 |
| 10      | 2001 | 6.76            | 4.90            | 7.48            | 41.12           | 21.53           | 0.00            | 3.24            | 0.00            | 35.14           | 0.00             | 29.70            | 13.11            | 3.67             | 0.61             | 0.00             | 0.00             | 0.00             | 0.31             | 0.00             | 0.00             | 0.00             | 0.00             | 8.04             | 27.40            | 69.05            | 66.45            | 6.92             | 0.00             | 0.86             | 6.86             | 53.36            | 14.41            | 107.15           | 24.93            | 14.24            | 6.02             | 22.32            | 9.61             | 3.41             | 71.52            | 108.62           | 19.21            | 9.77             | 0.00             | 0.00             | 0.00             | 3.85             | 2.12             | 1.53             | 1.95             | 0.00             | 3.16             | 830.31              | 1025.19                    | 43.48           |       |
| 11      | 2002 | 9.08            | 6.90            | 9.37            | 47.22           | 24.55           | 0.00            | 4.66            | 0.00            | 39.60           | 0.00             | 33.01            | 16.29            | 4.91             | 1.10             | 0.00             | 0.00             | 0.00             | 0.47             | 0.18             | 0.00             | 0.00             | 0.00             | 0.00             | 4.57             | 4.20             | 11.95            | 14.47            | 0.29             | 7.16             | 31.29            | 79.40            | 5.79             | 267.20           | 52.11            | 18.03            | 12.25            | 26.06            | 11.89            | 4.72             | 36.52            | 185.99           | 26.50            | 9.77             | 0.00             | 0.00             | 4.87             | 2.71             | 2.07             | 2.63             | 0.15             | 5.26             | 1025.19          | 980.96              | 47.83                      |                 |       |
| 12      | 2003 | 2.90            | 1.91            | 4.20            | 23.07           | 13.54           | 0.00            | 0.97            | 0.00            | 23.06           | 0.00             | 18.73            | 6.31             | 1.35             | 0.00             | 0.00             | 0.00             | 0.00             | 0.09             | 0.00             | 0.00             | 0.00             | 0.00             | 2.75             | 2.72             | 0.00             | 3.07             | 7.56             | 0.00             | 0.00             | 9.31             | 40.11            | 10.95            | 75.61            | 39.18            | 12.24            | 6.39             | 33.37            | 0.00             | 1.10             | 0.00             | 77.78            | 16.91            | 9.77             | 0.00             | 0.00             | 1.82             | 1.00             | 0.67             | 0.89             | 0.00             | 0.79             | 450.11           | 951.59              | 52.17                      |                 |       |
| 13      | 2004 | 7.79            | 7.01            | 7.86            | 15.75           | 12.31           | 0.00            | 4.24            | 0.00            | 20.62           | 2.39             | 11.78            | 9.21             | 3.27             | 1.21             | 0.00             | 0.00             | 0.00             | 0.52             | 0.58             | 0.00             | 0.00             | 0.00             | 1.72             | 12.67            | 96.04            | 94.69            | 0.93             | 0.72             | 4.57             | 9.18             | 42.82            | 16.01            | 59.20            | 33.24            | 8.67             | 13.58            | 23.75            | 20.09            | 7.03             | 49.29            | 77.78            | 16.56            | 9.77             | 6.64             | 0.00             | 0.00             | 3.15             | 1.94             | 1.95             | 2.52             | 1.28             | 8.09             | 728.42              | 891.70                     | 56.52           |       |
| 14      | 2005 | 3.11            | 0.35            | 5.03            | 63.89           | 28.97           | 0.00            | 0.58            | 0.00            | 47.12           | 0.00             | 46.83            | 14.24            | 2.83             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 4.20             | 0.00             | 0.00             | 0.00             | 22.24            | 0.00             | 13.51            | 13.12            | 39.22            | 26.24            | 105.73           | 34.30            | 25.75            | 12.45            | 21.70            | 1.06             | 0.00             | 110.48           | 83.73            | 16.67            | 9.77             | 0.00             | 0.00             | 0.00             | 3.57             | 1.70             | 0.46             | 0.58             | 0.00             | 0.00             | 759.40              | 830.31                     | 60.87           |       |
| 15      | 2006 | 5.81            | 3.98            | 6.74            | 40.90           | 21.16           | 0.00            | 2.63            | 0.00            | 34.64           | 0.00             | 29.91            | 12.24            | 3.24             | 0.38             | 0.00             | 0.00             | 0.00             | 0.24             | 0.00             | 0.00             | 0.00             | 0.00             | 58.59            | 0.00             | 3.72             | 15.18            | 6.77             | 0.00             | 5.90             | 14.69            | 52.16            | 14.89            | 123.10           | 36.90            | 14.65            | 11.71            | 24.14            | 12.54            | 4.50             | 57.54            | 108.46           | 19.29            | 9.77             | 0.00             | 0.00             | 0.00             | 3.52             | 1.91             | 1.29             | 1.65             | 0.00             | 1.98             | 766.73              | 770.24                     | 65.22           |       |
| 16      | 2007 | 18.22           | 20.44           | 14.71           | 0.00            | 0.00            | 37.76           | 11.98           | 8.42            | 0.00            | 16.80            | 0.00             | 4.09             | 5.34             | 4.79             | 4.67             | 6.34             | 5.23             | 1.72             | 3.27             | 3.23             | 5.01             | 20.93            | 5.16             | 18.26            | 7.74             | 16.39            | 7.87             | 52.94            | 23.66            | 13.37            | 27.27            | 64.28            | 173.21           | 26.62            | 11.36            | 10.11            | 13.06            | 102.45           | 202.20           | 0.00             | 9.35             | 76.71            | 6.50             | 40.71            | 38.12            | 32.09            | 3.52             | 2.97             | 5.08             | 6.54             | 7.00             | 32.11            | 1229.57             | 767.46                     | 69.57           |       |
| 17      | 2008 | 19.42           | 21.87           | 15.53           | 0.00            | 0.00            | 41.06           | 12.84           | 9.18            | 0.00            | 18.15            | 0.00             | 3.98             | 5.67             | 5.17             | 5.13             | 6.97             | 5.79             | 1.84             | 3.53             | 3.61             | 5.46             | 22.76            | 10.51            | 10.70            | 29.57            | 34.36            | 12.34            | 52.94            | 23.66            | 13.37            | 27.27            | 64.28            | 173.21           | 26.62            | 11.36            | 10.11            | 13.06            | 102.45           | 202.20           | 0.00             | 9.35             | 76.71            | 6.50             | 43.92            | 41.67            | 35.08            | 3.66             | 3.13             | 5.42             | 6.97             | 7.55             | 34.50            | 1300.43             | 766.73                     | 73.91           |       |
| 18      | 2009 | 33.77           | 39.14           | 25.41           | 0.00            | 0.00            | 81.62           | 23.13           | 18.58           | 0.00            | 34.54            | 0.00             | 2.27             | 9.48             | 9.71             | 10.68            | 14.82            | 12.75            | 3.36             | 6.72             | 8.36             | 10.98            | 45.19            | 0.00             | 1.20             | 0.00             | 0.00             | 36.67            | 177.16           | 46.57            | 33.43            | 86.45            | 98.59            | 181.46           | 27.27            | 22.39            | 81.04            | 41.26            | 126.31           | 359.37           | 0.00             | 9.35             | 63.50            | 14.08            | 83.07            | 85.43            | 71.95            | 5.34             | 5.01             | 9.53             | 12.24            | 14.16            | 63.56            | 2146.88             | 759.40                     | 78.26           |       |
| 19      | 2010 | 17.83           | 20.79           | 14.13           | 0.00            | 0.00            | 45.62           | 11.95           | 9.98            | 0.00            | 18.68            | 0.00             | 0.53             | 4.59             | 4.92             | 5.68             | 8.24             | 7.17             | 1.77             | 3.53             | 4.53             | 6.04             | 25.41            | 0.00             | 3.11             | 22.25            | 29.92            | 11.76            | 62.38            | 10.86            | 2.78             | 22.02            | 41.65            | 91.44            | 11.34            | 22.08            | 64.56            | 32.80            | 114.18           | 188.36           | 0.00             | 11.44            | 15.62            | 12.87            | 44.88            | 48.15            | 40.31            | 2.69             | 2.62             | 5.09             | 6.57             | 7.68             | 34.02            | 1174.83             | 757.02                     | 82.61           |       |
| 20      | 2011 | 15.07           | 17.09           | 12.37           | 0.00            | 0.00            | 33.71           | 9.86            | 7.34            | 0.00            | 14.46            | 0.00             | 2.51             | 4.15             | 3.93             | 4.08             | 5.76             | 4.85             | 1.44             | 2.76             | 2.96             | 4.44             | 18.77            | 0.00             | 11.44            | 30.73            | 33.40            | 21.57            | 49.99            | 16.09            | 10.20            | 38.20            | 52.22            | 15.23            | 9.85             | 14.71            | 54.12            | 34.70            | 106.15           | 150.57           | 22.15            | 16.12            | 17.44            | 9.46             | 34.95            | 34.60            | 29.00            | 2.72             | 2.40             | 4.24             | 5.48             | 6.02             | 27.19            | 1026.45             | 728.42                     | 86.96           |       |
| 21      | 2012 | 30.23           | 35.36           | 22.79           | 0.00            | 0.00            | 76.93           | 20.74           | 17.34           | 0.00            | 31.88            | 0.00             | 0.55             | 8.15             | 8.74             | 10.00            | 14.14            | 12.30            | 3.04             | 6.14             | 8.04             | 10.32            | 42.68            | 1.14             | 1.61             | 7.05             | 19.03            | 26.35            | 131.90           | 54.05            | 45.45            | 33.71            | 32.13            | 190.08           | 15.74            | 18.73            | 47.76            | 38.40            | 177.69           | 336.39           | 0.00             | 13.54            | 34.83            | 8.59             | 76.52            | 81.30            |                  |                  |                  |                  |                  |                  |                  |                     |                            |                 |       |

**Annexure - X**

| <b>75% Water Availability at Weir Site in Chir Sub Basin on Catchment Area Proportion Basis</b> |   |  |                                    |                                 |                                    |                                   |  |  |
|---|---|--|------------------------------------|---------------------------------|------------------------------------|-----------------------------------|--|--|
|   |   |  |                                    |                                 |                                    |                                   | <b>Unit - HAM</b>                                    |  |
| <b>Week No.</b>   | <b>75% Dependable inflow in Chir River CA = 1312 Sqkms with runoff as 63 cms in MCM</b> | <b>75% Dependable inflow in Chir River CA = 1312 Sqkms but with runoff as 36.40 cms in MCM</b> | <b>Sukahnia Weir CA = 52 Sqkms</b> | <b>Dakai Weir CA = 80 Sqkms</b> | <b>Triveni Weir CA = 207 Sqkms</b> | <b>Kajhia Weir CA = 183 Sqkms</b> | <b>Harna Weir (North &amp; South) CA = 129 Sqkms</b> | <b>Withdrawal Site with CA = 661 Sqkms</b> |
| 1   | 10.02   | 5.79   | 22.94                              | 35.29                           | 91.31                              | 80.72                             | 56.90  | 291.58                                     |
| 2   | 10.67   | 6.16   | 24.43                              | 37.58                           | 97.25                              | 85.97                             | 60.61  | 310.54                                     |
| 3   | 8.59  | 4.96   | 19.67                              | 30.26                           | 78.31                              | 69.23                             | 48.80  | 250.06                                     |
| 4   | 9.44  | 5.45   | 21.62                              | 33.26                           | 86.05                              | 76.08                             | 53.63  | 274.79                                     |
| 5   | 4.95  | 2.86   | 11.33                              | 17.43                           | 45.10                              | 39.87                             | 28.11  | 144.03                                     |
| 6   | 18.24   | 10.54  | 41.77                              | 64.26                           | 166.26                             | 146.99                            | 103.61   | 530.92                                     |
| 7   | 6.30  | 3.64   | 14.43                              | 22.20                           | 57.45                              | 50.78                             | 35.80  | 183.44                                     |
| 8   | 4.04  | 2.34   | 9.26                               | 14.25                           | 36.87                              | 32.59                             | 22.97  | 117.72                                     |
| 9   | 8.14  | 4.70   | 18.64                              | 28.68                           | 74.22                              | 65.61                             | 46.25  | 237.00                                     |
| 10  | 8.14  | 4.70   | 18.64                              | 28.68                           | 74.20                              | 65.59                             | 46.24  | 236.93                                     |
| 11  | 6.91  | 3.99   | 15.83                              | 24.36                           | 63.03                              | 55.72                             | 39.28  | 201.27                                     |
| 12  | 4.68  | 2.71   | 10.72                              | 16.50                           | 42.68                              | 37.73                             | 26.60  | 136.29                                     |
| 13  | 3.26  | 1.88   | 7.47                               | 11.49                           | 29.72                              | 26.28                             | 18.52  | 94.91                                      |
| 14  | 2.39  | 1.38   | 5.46                               | 8.41                            | 21.75                              | 19.23                             | 13.56  | 69.46                                      |
| 15  | 2.25  | 1.30   | 5.14                               | 7.91                            | 20.47                              | 18.10                             | 12.76  | 65.37                                      |
| 16  | 3.07  | 1.77   | 7.03                               | 10.82                           | 27.99                              | 24.75                             | 17.44  | 89.38                                      |
| 17  | 2.54  | 1.47   | 5.82                               | 8.95                            | 23.17                              | 20.48                             | 14.44  | 73.98                                      |
| 18  | 0.88  | 0.51   | 2.01                               | 3.09                            | 8.00                               | 7.07                              | 4.99   | 25.54                                      |
| 19  | 1.59  | 0.92   | 3.63                               | 5.59                            | 14.47                              | 12.79                             | 9.02   | 46.20                                      |
| 20  | 1.56  | 0.90   | 3.58                               | 5.51                            | 14.25                              | 12.60                             | 8.88   | 45.50                                      |
| 21  | 2.42  | 1.40   | 5.54                               | 8.52                            | 22.04                              | 19.49                             | 13.74  | 70.38                                      |
| 22  | 10.12   | 5.85   | 23.18                              | 35.65                           | 92.26                              | 81.56                             | 57.49  | 294.60                                     |
| 23  | 4.60  | 2.66   | 10.52                              | 16.19                           | 41.89                              | 37.03                             | 26.11  | 133.76                                     |
| 24  | 5.03  | 2.91   | 11.52                              | 17.72                           | 45.85                              | 40.53                             | 28.57  | 146.40                                     |
| 25  | 16.97   | 9.80   | 38.86                              | 59.78                           | 154.68                             | 136.74                            | 96.39  | 493.92                                     |
| 26  | 20.07   | 11.60  | 45.97                              | 70.72                           | 182.98                             | 161.77                            | 114.03   | 584.31                                     |
| 27  | 10.60   | 6.13   | 24.28                              | 37.35                           | 96.64                              | 85.44                             | 60.23  | 308.60                                     |
| 28  | 28.48   | 16.45  | 65.21                              | 100.33                          | 259.59                             | 229.50                            | 161.78   | 828.94                                     |
| 29  | 17.58   | 10.16  | 40.26                              | 61.94                           | 160.28                             | 141.70                            | 99.88  | 511.81                                     |
| 30  | 18.54   | 10.71  | 42.45                              | 65.30                           | 168.97                             | 149.38                            | 105.30   | 539.56                                     |
| 31  | 26.78   | 15.48  | 61.34                              | 94.36                           | 244.16                             | 215.85                            | 152.16   | 779.66                                     |

| Week No.     | 75% Dependable inflow in Chir River CA = 1312 Sqkms with runoff as 63 cms in MCM | 75% Dependable inflow in Chir River CA = 1312 Sqkms but with runoff as 36.40 cms in MCM | Sukahnia Weir CA = 52 Sqkms | Dakai Weir CA = 80 Sqkms | Triveni Weir CA = 207 Sqkms | Kajhia Weir CA = 183 Sqkms | Harna Weir (North & South) CA = 129 Sqkms | Withdrawal Site with CA = 661 Sqkms |
|--------------|--|---|-----------------------------|--------------------------|-----------------------------|----------------------------|---|-------------------------------------|
| 32           | 38.26  | 22.11   | 87.62                       | 134.80                   | 348.80                      | 308.36                     | 217.37                                    | 1113.80                             |
| 33           | 63.10  | 36.46   | 144.50                      | 222.31                   | 575.22                      | 508.53                     | 358.47                                    | 1836.82                             |
| 34           | 36.93  | 21.34   | 84.56                       | 130.10                   | 336.62                      | 297.59                     | 209.78                                    | 1074.91                             |
| 35           | 17.16  | 9.92  | 39.30                       | 60.47                    | 156.45                      | 138.32                     | 97.50                                     | 499.60                              |
| 36           | 29.49  | 17.04   | 67.53                       | 103.89                   | 268.82                      | 237.65                     | 167.52                                    | 858.40                              |
| 37           | 23.06  | 13.32   | 52.80                       | 81.23                    | 210.19                      | 185.82                     | 130.99                                    | 671.20                              |
| 38           | 32.20  | 18.60   | 73.73                       | 113.44                   | 293.52                      | 259.49                     | 182.92                                    | 937.27                              |
| 39           | 74.17  | 42.85   | 169.85                      | 261.31                   | 676.13                      | 597.74                     | 421.35                                    | 2159.03                             |
| 40           | 22.06  | 12.74   | 50.51                       | 77.70                    | 201.06                      | 177.75                     | 125.30                                    | 642.03                              |
| 41           | 34.24  | 19.78   | 78.41                       | 120.63                   | 312.12                      | 275.93                     | 194.51                                    | 996.67                              |
| 42           | 24.88  | 14.37   | 56.97                       | 87.65                    | 226.79                      | 200.50                     | 141.34                                    | 724.21                              |
| 43           | 6.82   | 3.94  | 15.61                       | 24.02                    | 62.15                       | 54.95                      | 38.73                                     | 198.47                              |
| 44           | 19.74  | 11.41   | 45.21                       | 69.55                    | 179.95                      | 159.09                     | 112.15                                    | 574.64                              |
| 45           | 18.47  | 10.67   | 42.29                       | 65.07                    | 168.36                      | 148.84                     | 104.92                                    | 537.61                              |
| 46           | 15.53  | 8.97  | 35.57                       | 54.72                    | 141.59                      | 125.17                     | 88.24                                     | 452.13                              |
| 47           | 2.47   | 1.43  | 5.65                        | 8.70                     | 22.51                       | 19.90                      | 14.03                                     | 71.88                               |
| 48           | 1.85   | 1.07  | 4.24                        | 6.52                     | 16.88                       | 14.92                      | 10.52                                     | 53.89                               |
| 49           | 2.72   | 1.57  | 6.23                        | 9.58                     | 24.79                       | 21.91                      | 15.45                                     | 79.15                               |
| 50           | 3.50   | 2.02  | 8.02                        | 12.33                    | 31.92                       | 28.22                      | 19.89                                     | 101.92                              |
| 51           | 3.41   | 1.97  | 7.80                        | 12.00                    | 31.05                       | 27.45                      | 19.35                                     | 99.16                               |
| 52           | 16.00  | 9.24  | 36.64                       | 56.37                    | 145.85                      | 128.94                     | 90.89                                     | 465.74                              |
| <b>Total</b> | <b>764.89</b>  | <b>441.94</b>   | <b>1751.59</b>              | <b>2694.75</b>           | <b>6972.67</b>              | <b>6164.24</b>             | <b>4345.28</b>                            | <b>22265.37</b>                     |



**ANNEXURE - XI/1****CALCULATION OF MEAN DAILY DURATION OF MAXIMUM POSSIBLE SUNSHINE HOURS FOR BHAGALPUR**

| Northern Latitude | January | February | March  | April  | May    | June   | July   | August | September | October | November | December |
|-------------------|---------|----------|--------|--------|--------|--------|--------|--------|-----------|---------|----------|----------|
| 25°               | 10.700  | 11.300   | 12.000 | 12.700 | 13.300 | 13.700 | 13.500 | 13.000 | 12.300    | 11.600  | 10.900   | 10.600   |
| 25°               | 10.700  | 11.300   | 12.000 | 12.700 | 13.300 | 13.700 | 13.500 | 13.000 | 12.300    | 11.600  | 10.900   | 10.600   |
| 25°               | 10.700  | 11.300   | 12.000 | 12.700 | 13.300 | 13.700 | 13.500 | 13.000 | 12.300    | 11.600  | 10.900   | 10.600   |

**RATIO OF ACTUAL SUNSHINE HOURS (n) TO MAXIMUM POSSIBLE SUNSHINE HOURS (N) CORRESPONDING TO CLOUDNESS IN OCTAS**

| Cloudness in Octas | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8 |
|--------------------|------|------|------|------|------|------|------|------|---|
| n/N                | 0.95 | 0.85 | 0.75 | 0.65 | 0.55 | 0.45 | 0.35 | 0.25 | 0 |

**CLIMATIC DATA FOR BHAGALPUR AS PER SECOND BIHAR IRRIGATION COMMISSION REPORT**Station **Bhagalpur** Latitude **25°00'**Longitude **87°00'** Av Altitude **150 M**

| S. No | Name of month | Temperature |       |       | Relative Humidity |       |       | Average wind speed in Km/hr |         | Cloudness in Octas |         |      | n/N   | Actual Sunshine hrs |
|-------|---------------|-------------|-------|-------|-------------------|-------|-------|-----------------------------|---------|--------------------|---------|------|-------|---------------------|
|       |               | Maxm        | Minm  | Mean  | Maxm              | Minm  | Mean  | Morning                     | Evening | Morning            | Evening | Mean |       |                     |
| 1     | 2             | 3           | 4     | 5     | 6                 | 7     | 8     | 9                           | 10      | 11                 | 12      | 13   | 14    | 15                  |
| 1     | January       | 23.62       | 6.06  | 14.84 | 81.51             | 65.40 | 73.46 | 4.82                        | 6.30    | 1.99               | 1.55    | 1.77 | 0.773 | 8.271               |
| 2     | February      | 26.53       | 10.10 | 18.32 | 72.03             | 54.34 | 63.19 | 2.93                        | 8.63    | 1.63               | 1.38    | 1.51 | 0.799 | 9.029               |
| 3     | March         | 32.48       | 14.96 | 23.72 | 58.76             | 43.27 | 51.02 | 3.60                        | 10.33   | 1.88               | 1.52    | 1.70 | 0.415 | 4.980               |
| 4     | April         | 37.09       | 22.89 | 29.99 | 59.00             | 41.15 | 50.08 | 6.28                        | 11.67   | 2.15               | 1.70    | 1.93 | 0.757 | 9.614               |
| 5     | May           | 37.27       | 24.13 | 30.70 | 68.66             | 51.11 | 59.89 | 8.05                        | 11.57   | 2.95               | 2.31    | 2.63 | 0.687 | 9.137               |
| 6     | June          | 35.15       | 25.74 | 30.45 | 79.55             | 69.68 | 74.62 | 7.06                        | 11.38   | 5.71               | 5.25    | 5.48 | 0.391 | 5.357               |
| 7     | July          | 32.66       | 25.73 | 29.20 | 86.03             | 80.76 | 83.40 | 6.15                        | 10.11   | 5.69               | 6.50    | 6.10 | 0.340 | 4.590               |
| 8     | August        | 32.19       | 25.74 | 28.97 | 86.00             | 82.13 | 84.07 | 6.38                        | 11.28   | 6.45               | 6.28    | 6.37 | 0.313 | 4.069               |
| 9     | September     | 32.31       | 25.07 | 28.69 | 84.18             | 81.33 | 82.76 | 5.13                        | 9.00    | 5.72               | 5.36    | 5.54 | 0.396 | 4.871               |
| 10    | October       | 31.60       | 21.51 | 26.56 | 79.29             | 75.41 | 77.35 | 2.28                        | 5.63    | 2.14               | 2.60    | 2.37 | 0.713 | 8.271               |
| 11    | November      | 28.59       | 14.14 | 21.37 | 74.26             | 69.12 | 71.69 | 1.11                        | 8.43    | 1.76               | 1.44    | 1.60 | 0.790 | 8.611               |
| 12    | December      | 24.61       | 8.86  | 16.74 | 78.76             | 68.71 | 73.74 | 1.01                        | 5.95    | 1.46               | 1.20    | 1.33 | 0.817 | 8.660               |

**ANNEXURE - XI/2****CALCULATION OF EVAPOTRANSPIRATION BY MODIFIED PENMAN METHOD**

|       | Station   | BHAGALPUR | Latitude | 25°      |        | Longitude | 87°     |        |         | Altitude | 150 M     |         |          |          |
|-------|---|-----------|----------|----------|--------|-----------|---------|--------|---------|----------|-----------|---------|----------|----------|
| S. No | Item  | Table no. | January  | February | March  | April     | May     | June   | July    | August   | September | October | November | December |
| 1     | 2   | 3         | 4        | 5        | 6      | 7         | 8       | 9      | 10      | 11       | 12        | 13      | 14       | 15       |
| 1     | $e_a = 6.5048 e^{0.06241}$                      |           | 16.421   | 20.397   | 28.579 | 42.263    | 44.178  | #REF!  | 40.218  | 39.645   | 38.970    | 34.109  | 24.673   | 18.482   |
| 2     | $e_d = e_a \times R_h(\text{mean})/100$         |           | 12.062   | 12.888   | 14.580 | 21.163    | 26.456  | #REF!  | 33.540  | 33.327   | 32.250    | 26.384  | 17.688   | 13.628   |
| 3     | $e_a - e_d$                                     |           | 4.359    | 7.509    | 13.999 | 21.100    | 17.722  | #REF!  | 6.678   | 6.317    | 6.720     | 7.726   | 6.985    | 4.854    |
| 4     | $f(U) = [0.27(1+U/100)]$                        |           | 0.630    | 0.645    | 0.721  | 0.852     | 0.906   | #REF!  | 0.797   | 0.842    | 0.728     | 0.526   | 0.579    | 0.496    |
| 5     | $(1-W)$   | 8         | 0.374    | 0.332    | 0.270  | 0.218     | 0.210   | 0.213  | 0.221   | 0.222    | 0.224     | 0.241   | 0.293    | 0.350    |
|       | <b>Part - A</b>                                 |           |          |          |        |           |         |        |         |          |           |         |          |          |
|       | Row (3x4x5)                                     |           | 1.029    | 1.608    | 2.724  | 3.911     | 3.371   | #REF!  | 1.176   | 1.182    | 1.093     | 0.982   | 1.186    | 0.841    |
| 6     | $R_a$   | 10        | 10.000   | 11.700   | 13.800 | 15.350    | 16.400  | 16.650 | 16.550  | 15.750   | 14.400    | 12.450  | 10.500   | 9.500    |
| 7     | $n$   |           | 8.271    | 9.029    | 4.980  | 9.614     | 9.137   | #REF!  | 4.590   | 4.069    | 4.871     | 8.271   | 8.611    | 8.660    |
| 8     | $N$   |           | 10.700   | 11.300   | 12.000 | 12.700    | 13.300  | 13.700 | 13.500  | 13.000   | 12.300    | 11.600  | 10.900   | 10.600   |
| 9     | $n/N$   |           | 0.773    | 0.799    | 0.415  | 0.757     | 0.687   | #REF!  | 0.340   | 0.313    | 0.396     | 0.713   | 0.790    | 0.817    |
| 10    | $0.5 \times (n/N)$                              |           | 0.387    | 0.400    | 0.208  | 0.379     | 0.344   | #REF!  | 0.170   | 0.157    | 0.198     | 0.357   | 0.395    | 0.409    |
| 11    | $0.25 + 0.5x(n/N)$                              |           | 0.637    | 0.650    | 0.458  | 0.629     | 0.594   | #REF!  | 0.420   | 0.407    | 0.448     | 0.607   | 0.645    | 0.659    |
| 12    | $R_s = \text{Row}(6 \times 11)$                 |           | 6.365    | 7.599    | 6.314  | 9.647     | 9.733   | #REF!  | 6.951   | 6.402    | 6.451     | 7.551   | 6.773    | 6.256    |
| 13    | $R_{ns} = (1-0.25) \times R_s$                  |           | 4.774    | 5.699    | 4.735  | 7.236     | 7.300   | #REF!  | 5.213   | 4.802    | 4.838     | 5.663   | 5.079    | 4.692    |
| 14    | $f(T)$  | 13        | 13.626   | 14.264   | 15.344 | 16.698    | 16.875  | 16.813 | 16.540  | 16.494   | 16.438    | 16.012  | 13.948   | 13.948   |
| 15    | $f(e_d) = 0.34 - 0.044x(ed)^{0.5}$              |           | 0.187    | 0.182    | 0.172  | 0.138     | 0.114   | #REF!  | 0.085   | 0.086    | 0.090     | 0.114   | 0.155    | 0.178    |
| 16    | $f(n/N) = 0.1 + 0.9 \times n/N$                 |           | 0.796    | 0.819    | 0.474  | 0.781     | 0.718   | #REF!  | 0.406   | 0.382    | 0.456     | 0.742   | 0.811    | 0.835    |
| 17    | $R_{nl} = (\text{Row } 14 \times 15 \times 16)$ |           | 2.030    | 2.127    | 1.250  | 1.795     | 1.378   | #REF!  | 0.572   | 0.541    | 0.676     | 1.354   | 1.753    | 2.069    |
| 18    | $R_{ns} = (\text{Row } 13 - 17)$                |           | 2.744    | 3.572    | 3.486  | 5.441     | 5.922   | #REF!  | 4.641   | 4.260    | 4.162     | 4.309   | 3.327    | 2.623    |
| 19    | $W = 1 - (1 - W)$                               |           | 0.626    | 0.668    | 0.730  | 0.782     | 0.790   | 0.788  | 0.779   | 0.778    | 0.776     | 0.759   | 0.707    | 0.650    |
|       | <b>Part - B</b>                                 |           |          |          |        |           |         |        |         |          |           |         |          |          |
| 20    | $W \times R_{ns}$                               |           | 1.717    | 2.386    | 2.545  | 4.257     | 4.678   | #REF!  | 3.616   | 3.314    | 3.232     | 3.269   | 2.351    | 1.706    |
| 21    | Part A + Part B                                 |           | 2.745    | 3.994    | 5.270  | 8.167     | 8.049   | #REF!  | 4.792   | 4.496    | 4.325     | 4.251   | 3.537    | 2.547    |
|       | <b>Part - C</b>                                 |           |          |          |        |           |         |        |         |          |           |         |          |          |
| 22    | $c$   | 16        | 0.679    | 0.600    | 0.599  | 0.466     | 0.507   | 0.634  | 0.674   | 0.693    | 0.685     | 0.629   | 0.639    | 0.674    |
| 23    | <b>ETO (mm/day)</b>                             |           | 1.864    | 2.397    | 3.158  | 3.803     | 4.082   | #REF!  | 3.231   | 3.117    | 2.964     | 2.672   | 2.262    | 1.716    |
|       | <b>ETO (mm/week)</b>                            |           | 13.051   | 16.781   | 22.104 | 26.624    | 28.574  | #REF!  | 22.618  | 21.816   | 20.750    | 18.706  | 15.832   | 12.012   |
|       | <b>ETO (mm/month)</b>                           |           | 57.797   | 74.318   | 97.889 | 117.906   | 126.543 | #REF!  | 100.166 | 96.613   | 91.894    | 82.841  | 70.115   | 53.198   |

| <b>ANNEXURE - XII/1</b>   |  |   |                |                       |               |                    |                    |                |                                  |                                |   |                       |                            |                   |                |                |
|---|--|---|----------------|-----------------------|---------------|--------------------|--------------------|----------------|----------------------------------|--------------------------------|---|-----------------------|----------------------------|-------------------|----------------|----------------|
| <b>CROP IRRIGATION REQUIREMENT BY MODIFIED PENMAN METHOD - REFER FAO Guidelines Paper - 56</b>                    |  |   |                |                       |               |                    |                    |                |                                  |                                |   |                       |                            |                   |                |                |
| <b>Crop Name:- Paddy (s) sowing period :- June 21 -30 Harvesting Period :- Oct. 11 -20 Base Period :- 112 day</b> |  |   |                |                       |               |                    |                    |                |                                  |                                |   |                       |                            |                   |                |                |
| <b>Command Area of : SUKHANIA WEIR IN BANKA DISTRICT OF BIHAR</b>   |  |   |                |                       |               |                    |                    |                |                                  |                                |   |                       |                            |                   |                |                |
|   |  |   |                |                       |               |                    |                    |                |                                  |                                |   |                       | <b>Kharif Area in Ha =</b> |                   | <b>1356.00</b> |                |
| Month   | Date                                   | Agricultural Activity And Stage of Growth of Crop | CALCULATION OF |                       |               |                    |                    |                | 10 - DAY AV. R.F. 1992 - 2013 mm | Effect. R.F. (T - 8) T.S.-2 mm | CHANCE Effect, R.F. Re = Col (13)x 0.8739 (T- | NIR = Etc + P - Re mm | GIR = NIR ÷ 0.657 mm       | GIR PER HA of     |                |                |
|   |  |   | ETo Per day mm | ETo For the period mm | Kc crop coeff | Etc = Kc. x ETo nm | P = 3mm per day mm | Total ETC+P mm |                                  |                                |   |                       |                            | % of Area Covered | GIR in HAM     |                |
| 1   | 2                                      | 3   | 4              | 5                     | 6             | 7                  | 8                  | 9              | 10                               | 11                             | 12  | 13                    | 14                         | 15                | 16             |                |
| May - June  | 28 - 03                                |   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 14.27                            |                                | 9.510   |                       |                            |                   |                |                |
| June  | 04 - 10                                |   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 26.33                            |                                | 17.547  |                       |                            |                   |                |                |
|   | 11 - 17                                |   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 32.62                            |                                | 21.739  |                       |                            |                   |                |                |
|   | 18 - 24                                | Nursery   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 62.51                            |                                | 41.658  | 5.459                 | 8.308                      | 0.100             | 1.127          |                |
| June - July   | 25 - 01                                | Nursery   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 59.78                            |                                | 39.839  | 7.278                 | 11.077                     | 0.100             | 1.502          |                |
| July  | 02 - 08                                | Nursery   | 3.231          | 22.617                | 1.000         | 22.617             | 21.000             | 43.617         | 43.15                            |                                | 28.756  | 14.861                | 22.619                     | 0.100             | 3.067          |                |
|   | <b>Total</b>                           |   |                |                       |               |                    |                    | <b>279.20</b>  | <b>238.66</b>                    | <b>182.000</b>                 | <b>159.050</b>                                |                       |                            |                   |                |                |
|   | 09 - 15                                | P&T   | 3.231          | 22.617                | SPL           |                    |                    | 120.000        |                                  |                                |   |                       |                            |                   | 162.720        |                |
|   | 16 - 22                                | P&T   | 3.231          | 22.617                | 1.000         | 22.617             | 21.000             | 43.617         | 51.62                            |                                | 28.977  | 14.640                | 22.283                     | 1.000             | 30.216         |                |
|   | 23 - 29                                | P&T   | 3.231          | 22.617                | 1.000         | 22.617             | 21.000             | 43.617         | 65.91                            |                                | 36.999  | 6.618                 | 10.073                     | 1.000             | 13.659         |                |
| July - Aug  | 30 - 05                                | Initial Stage Dev.                                | 3.117          | 21.819                | 1.000         | 21.819             | 21.000             | 42.819         | 50.80                            |                                | 28.517  | 14.302                | 21.769                     | 1.000             | 29.519         |                |
| Aug.  | 06 - 12                                | Mid. Stage Dev.                                   | 3.117          | 21.819                | 1.050         | 22.910             | 21.000             | 43.910         | 68.98                            |                                | 38.722  | 5.188                 | 7.896                      | 1.000             | 10.707         |                |
|   | 13 - 19                                | Mid. Stage Dev.                                   | 3.117          | 21.819                | 1.050         | 22.910             | 21.000             | 43.910         | 87.51                            |                                | 49.124  | 0.000                 | 0.000                      | 1.000             | 0.000          |                |
|   | <b>Total</b>                           |   |                |                       |               |                    |                    | <b>217.87</b>  | <b>324.82</b>                    | <b>208.650</b>                 | <b>182.339</b>                                |                       |                            |                   |                |                |
|   | 20 - 26                                | Late Stg. Dev.                                    | 3.117          | 21.819                | 1.100         | 24.001             | 21.000             | 81.000         | 84.13                            |                                | 65.110  | 15.890                | 24.185                     | 1.000             | 32.795         |                |
| Aug. - Sep  | 27 - 02                                | Late Stg. Dev.                                    | 3.117          | 21.819                | 1.100         | 24.001             | 21.000             | 81.000         | 33.43                            |                                | 25.872  | 55.128                | 83.908                     | 1.000             | 113.779        |                |
| Sept.   | 03 - 09                                | Late Stg. Dev.                                    | 2.964          | 20.748                | 1.100         | 22.823             | 21.000             | 81.000         | 35.85                            |                                | 27.745  | 53.255                | 81.057                     | 1.000             | 109.914        |                |
|   | <b>Total</b>                           |   |                |                       |               |                    |                    | <b>243.00</b>  | <b>153.41</b>                    | <b>135.860</b>                 | <b>118.728</b>                                |                       |                            |                   |                |                |
|   | 10 - 16                                | Maturity  | 2.964          | 20.748                | 1.050         | 21.785             | 21.000             | 42.785         | 37.56                            |                                | 22.174  | 20.611                | 31.371                     | 1.000             | 42.540         |                |
|   | 17 - 23                                | Maturity  | 2.964          | 20.748                | 1.050         | 21.785             | 21.000             | 42.785         | 43.23                            |                                | 25.522  | 17.264                | 26.276                     | 1.000             | 35.631         |                |
|   | 24 - 30                                | Drying  | 2.964          | 20.748                | 1.050         | 21.785             | 21.000             | 42.785         | 117.99                           |                                | 69.658  | 0.000                 | 0.000                      | 1.000             | 0.000          |                |
| Oct.  | 01 - 07                                | Drying  | 2.672          | 18.704                | 1.050         | 19.639             | 21.000             | 40.639         | 14.85                            |                                | 8.767   | 31.872                | 48.512                     | 1.000             | 65.782         |                |
|   | <b>Total</b>                           |   |                |                       |               |                    |                    | <b>169.00</b>  | <b>213.63</b>                    | <b>144.320</b>                 | <b>126.121</b>                                |                       |                            |                   |                |                |
|   | 08 - 14                                | Harvesting  | 2.672          | 18.704                | 1.050         | 19.639             | 21.000             | 40.639         | 33.34                            |                                |   |                       |                            |                   |                |                |
|   | 15 - 21                                |   | 2.672          | 18.704                | 1.050         | 19.639             | 21.000             | 40.639         | 15.25                            |                                |   |                       |                            |                   |                |                |
|   | 22 - 28                                |   | 2.672          | 18.704                | 1.050         | 19.639             | 21.000             | 40.639         | 0.43                             |                                |   |                       |                            |                   |                |                |
|   |  |   |                |                       |               |                    |                    | <b>121.918</b> | <b>49.020</b>                    |                                |   | <b>262.364</b>        | <b>399.336</b>             |                   | <b>652.957</b> |                |
| <b>GRAND TOTAL</b>  | <b>(Depth over cropped area in mm)</b> |   |                |                       |               |                    |                    |                |                                  |                                |   |                       |                            |                   |                | <b>481.532</b> |

| <b>ANNEXURE - XII/2</b>   |  |   |                |                       |               |                    |                    |                |                                  |                                |   |                       |                            |                   |                |                |
|---|--|---|----------------|-----------------------|---------------|--------------------|--------------------|----------------|----------------------------------|--------------------------------|---|-----------------------|----------------------------|-------------------|----------------|----------------|
| <b>CROP IRRIGATION REQUIREMENT BY MODIFIED PENMAN METHOD - REFER FAO Guidelines Paper - 56</b>                    |  |   |                |                       |               |                    |                    |                |                                  |                                |   |                       |                            |                   |                |                |
| <b>Crop Name:- Paddy (s) sowing period :- June 21 -30 Harvesting Period :- Oct. 11 -20 Base Period :- 112 day</b> |  |   |                |                       |               |                    |                    |                |                                  |                                |   |                       |                            |                   |                |                |
| <b>Command Area of : DAKAI WEIR IN BANKA DISTRICT OF BIHAR</b>  |  |   |                |                       |               |                    |                    |                |                                  |                                |   |                       |                            |                   |                |                |
|   |  |   |                |                       |               |                    |                    |                |                                  |                                |   |                       | <b>Kharif Area in Ha =</b> |                   | <b>315.00</b>  |                |
| Month   | Date                                   | Agricultural Activity And Stage of Growth of Crop | CALCULATION OF |                       |               |                    |                    |                | 10 - DAY AV. R.F. 1992 - 2013 mm | Effect. R.F. (T - 8) T.S.-2 mm | CHANCE Effect, R.F. Re = Col (13)x 0.8739 (T- | NIR = Etc + P - Re mm | GIR = NIR ÷ 0.657 mm       | GIR PER HA of     |                |                |
|   |  |   | ETo Per day mm | ETo For the period mm | Kc crop coeff | Etc = Kc. x ETo nm | P = 3mm per day mm | Total ETc+P mm |                                  |                                |   |                       |                            | % of Area Covered | GIR in HAM     |                |
| 2   | 3                                      | 4   | 5              | 6                     | 7             | 8                  | 9                  | 10             | 11                               | 13                             | 14  | 15                    | 16                         | 17                | 18             |                |
| May - June  | 28 - 03                                |   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 14.27                            |                                | 9.510   |                       |                            |                   |                |                |
| June  | 04 - 10                                |   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 26.33                            |                                | 17.547  |                       |                            |                   |                |                |
|   | 11 - 17                                |   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 32.62                            |                                | 21.739  |                       |                            |                   |                |                |
|   | 18 - 24                                | Nursery   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 62.51                            |                                | 41.658  | 5.459                 | 8.308                      | 0.100             | 0.262          |                |
| June - July   | 25 - 01                                | Nursery   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 59.78                            |                                | 39.839  | 7.278                 | 11.077                     | 0.100             | 0.349          |                |
| July  | 02 - 08                                | Nursery   | 3.231          | 22.617                | 1.000         | 22.617             | 21.000             | 43.617         | 43.15                            |                                | 28.756  | 14.861                | 22.619                     | 0.100             | 0.712          |                |
|   | <b>Total</b>                           |   |                |                       |               |                    |                    | <b>279.20</b>  | <b>238.66</b>                    | <b>182.000</b>                 | <b>159.050</b>                                |                       |                            |                   |                |                |
|   | 09 - 15                                | P&T   | 3.231          | 22.617                | SPL           |                    |                    | 120.000        |                                  |                                |   |                       |                            |                   | 37.800         |                |
|   | 16 - 22                                | P&T   | 3.231          | 22.617                | 1.000         | 22.617             | 21.000             | 43.617         | 51.62                            |                                | 28.977  | 14.640                | 22.283                     | 1.000             | 7.019          |                |
|   | 23 - 29                                | P&T   | 3.231          | 22.617                | 1.000         | 22.617             | 21.000             | 43.617         | 65.91                            |                                | 36.999  | 6.618                 | 10.073                     | 1.000             | 3.173          |                |
| July - Aug  | 30 - 05                                | Initial Stage Dev.                                | 3.117          | 21.819                | 1.000         | 21.819             | 21.000             | 42.819         | 50.80                            |                                | 28.517  | 14.302                | 21.769                     | 1.000             | 6.857          |                |
| Aug.  | 06 - 12                                | Mid. Stage Dev.                                   | 3.117          | 21.819                | 1.050         | 22.910             | 21.000             | 43.910         | 68.98                            |                                | 38.722  | 5.188                 | 7.896                      | 1.000             | 2.487          |                |
|   | 13 - 19                                | Mid. Stage Dev.                                   | 3.117          | 21.819                | 1.050         | 22.910             | 21.000             | 43.910         | 87.51                            |                                | 49.124  | 0.000                 | 0.000                      | 1.000             | 0.000          |                |
|   | <b>Total</b>                           |   |                |                       |               |                    |                    | <b>217.87</b>  | <b>324.82</b>                    | <b>208.650</b>                 | <b>182.339</b>                                |                       |                            |                   |                |                |
|   | 20 - 26                                | Late Stg. Dev.                                    | 3.117          | 21.819                | 1.100         | 24.001             | 21.000             | 81.000         | 84.13                            |                                | 65.110  | 15.890                | 24.185                     | 1.000             | 7.618          |                |
| Aug. - Sep  | 27 - 02                                | Late Stg. Dev.                                    | 3.117          | 21.819                | 1.100         | 24.001             | 21.000             | 81.000         | 33.43                            |                                | 25.872  | 55.128                | 83.908                     | 1.000             | 26.431         |                |
| Sept.   | 03 - 09                                | Late Stg. Dev.                                    | 2.964          | 20.748                | 1.100         | 22.823             | 21.000             | 81.000         | 35.85                            |                                | 27.745  | 53.255                | 81.057                     | 1.000             | 25.533         |                |
|   | <b>Total</b>                           |   |                |                       |               |                    |                    | <b>243.00</b>  | <b>153.41</b>                    | <b>135.860</b>                 | <b>118.728</b>                                |                       |                            |                   |                |                |
|   | 10 - 16                                | Maturity  | 2.964          | 20.748                | 1.050         | 21.785             | 21.000             | 42.785         | 37.56                            |                                | 22.174  | 20.611                | 31.371                     | 1.000             | 9.882          |                |
|   | 17 - 23                                | Maturity  | 2.964          | 20.748                | 1.050         | 21.785             | 21.000             | 42.785         | 43.23                            |                                | 25.522  | 17.264                | 26.276                     | 1.000             | 8.277          |                |
|   | 24 - 30                                | Drying  | 2.964          | 20.748                | 1.050         | 21.785             | 21.000             | 42.785         | 117.99                           |                                | 69.658  | 0.000                 | 0.000                      | 1.000             | 0.000          |                |
| Oct.  | 01 - 07                                | Drying  | 2.672          | 18.704                | 1.050         | 19.639             | 21.000             | 40.639         | 14.85                            |                                | 8.767   | 31.872                | 48.512                     | 1.000             | 15.281         |                |
|   | <b>Total</b>                           |   |                |                       |               |                    |                    | <b>169.00</b>  | <b>213.63</b>                    | <b>144.320</b>                 | <b>126.121</b>                                |                       |                            |                   |                |                |
|   | 08 - 14                                | Harvesting  | 2.672          | 18.704                | 1.050         | 19.639             | 21.000             | 40.639         | 33.34                            |                                |   |                       |                            |                   |                |                |
|   | 15 - 21                                |   | 2.672          | 18.704                | 1.050         | 19.639             | 21.000             | 40.639         | 15.25                            |                                |   |                       |                            |                   |                |                |
|   | 22 - 28                                |   | 2.672          | 18.704                | 1.050         | 19.639             | 21.000             | 40.639         | 0.43                             |                                |   |                       |                            |                   |                |                |
|   |  |   |                |                       |               |                    |                    | <b>121.918</b> | <b>49.020</b>                    |                                |   | <b>262.364</b>        | <b>399.336</b>             |                   | <b>151.682</b> |                |
| <b>GRAND TOTAL</b>  | <b>(Depth over cropped area in mm)</b> |   |                |                       |               |                    |                    |                |                                  |                                |   |                       |                            |                   |                | <b>481.532</b> |

| <b>ANNEXURE - XII/3</b>   |  |   |                |                       |               |                    |                    |                |                                  |                                |   |                       |                            |                   |                 |
|---|--|---|----------------|-----------------------|---------------|--------------------|--------------------|----------------|----------------------------------|--------------------------------|---|-----------------------|----------------------------|-------------------|-----------------|
| <b>CROP IRRIGATION REQUIREMENT BY MODIFIED PENMAN METHOD - REFER FAO Guidelines Paper - 56</b>                    |  |   |                |                       |               |                    |                    |                |                                  |                                |   |                       |                            |                   |                 |
| <b>Crop Name:- Paddy (s) sowing period :- June 21 -30 Harvesting Period :- Oct. 11 -20 Base Period :- 112 day</b> |  |   |                |                       |               |                    |                    |                |                                  |                                |   |                       |                            |                   |                 |
| <b>Command Area of : TRIVANI WEIR IN GODDA DISTRICT OF JHARKHAND</b>  |  |   |                |                       |               |                    |                    |                |                                  |                                |   |                       |                            |                   |                 |
|   |  |   |                |                       |               |                    |                    |                |                                  |                                |   |                       | <b>Kharif Area in Ha =</b> |                   | <b>5026.00</b>  |
| Month   | Date                                   | Agricultural Activity And Stage of Growth of Crop | CALCULATION OF |                       |               |                    |                    |                | 10 - DAY AV. R.F. 1992 - 2013 mm | Effect. R.F. (T - 8) T.S.-2 mm | CHANCE Effect, R.F. Re = Col (13)x 0.8739 (T- | NIR = Etc + P - Re mm | GIR = NIR ÷ 0.657 mm       | GIR PER HA of     |                 |
|   |  |   | ETo Per day mm | ETo For the period mm | Kc crop coeff | Etc = Kc. x ETo nm | P = 3mm per day mm | Total ETc+P mm |                                  |                                |   |                       |                            | % of Area Covered | GIR in HAM      |
| 2   | 3                                      | 4   | 5              | 6                     | 7             | 8                  | 9                  | 10             | 11                               | 13                             | 14  | 15                    | 16                         | 17                | 18              |
| May - June  | 28 - 03                                |   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 14.27                            |                                | 9.510   |                       |                            |                   |                 |
| June  | 04 - 10                                |   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 26.33                            |                                | 17.547  |                       |                            |                   |                 |
|   | 11 - 17                                |   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 32.62                            |                                | 21.739  |                       |                            |                   |                 |
|   | 18 - 24                                | Nursery   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 62.51                            |                                | 41.658  | 5.459                 | 8.308                      | 0.100             | 4.176           |
| June - July   | 25 - 01                                | Nursery   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 59.78                            |                                | 39.839  | 7.278                 | 11.077                     | 0.100             | 5.568           |
| July  | 02 - 08                                | Nursery   | 3.231          | 22.617                | 1.000         | 22.617             | 21.000             | 43.617         | 43.15                            |                                | 28.756  | 14.861                | 22.619                     | 0.100             | 11.368          |
|   | <b>Total</b>                           |   |                |                       |               |                    |                    | <b>279.20</b>  | <b>238.66</b>                    | <b>182.000</b>                 | <b>159.050</b>                                |                       |                            |                   |                 |
|   | 09 - 15                                | P&T   | 3.231          | 22.617                | SPL           |                    |                    | 120.000        |                                  |                                |   |                       |                            |                   | 603.120         |
|   | 16 - 22                                | P&T   | 3.231          | 22.617                | 1.000         | 22.617             | 21.000             | 43.617         | 51.62                            |                                | 28.977  | 14.640                | 22.283                     | 1.000             | 111.994         |
|   | 23 - 29                                | P&T   | 3.231          | 22.617                | 1.000         | 22.617             | 21.000             | 43.617         | 65.91                            |                                | 36.999  | 6.618                 | 10.073                     | 1.000             | 50.628          |
| July - Aug  | 30 - 05                                | Initial Stage Dev.                                | 3.117          | 21.819                | 1.000         | 21.819             | 21.000             | 42.819         | 50.80                            |                                | 28.517  | 14.302                | 21.769                     | 1.000             | 109.411         |
| Aug.  | 06 - 12                                | Mid. Stage Dev.                                   | 3.117          | 21.819                | 1.050         | 22.910             | 21.000             | 43.910         | 68.98                            |                                | 38.722  | 5.188                 | 7.896                      | 1.000             | 39.686          |
|   | 13 - 19                                | Mid. Stage Dev.                                   | 3.117          | 21.819                | 1.050         | 22.910             | 21.000             | 43.910         | 87.51                            |                                | 49.124  | 0.000                 | 0.000                      | 1.000             | 0.000           |
|   | <b>Total</b>                           |   |                |                       |               |                    |                    | <b>217.87</b>  | <b>324.82</b>                    | <b>208.650</b>                 | <b>182.339</b>                                |                       |                            |                   |                 |
|   | 20 - 26                                | Late Stg. Dev.                                    | 3.117          | 21.819                | 1.100         | 24.001             | 21.000             | 81.000         | 84.13                            |                                | 65.110  | 15.890                | 24.185                     | 1.000             | 121.554         |
| Aug. - Sep  | 27 - 02                                | Late Stg. Dev.                                    | 3.117          | 21.819                | 1.100         | 24.001             | 21.000             | 81.000         | 33.43                            |                                | 25.872  | 55.128                | 83.908                     | 1.000             | 421.722         |
| Sept.   | 03 - 09                                | Late Stg. Dev.                                    | 2.964          | 20.748                | 1.100         | 22.823             | 21.000             | 81.000         | 35.85                            |                                | 27.745  | 53.255                | 81.057                     | 1.000             | 407.395         |
|   | <b>Total</b>                           |   |                |                       |               |                    |                    | <b>243.00</b>  | <b>153.41</b>                    | <b>135.860</b>                 | <b>118.728</b>                                |                       |                            |                   |                 |
|   | 10 - 16                                | Maturity  | 2.964          | 20.748                | 1.050         | 21.785             | 21.000             | 42.785         | 37.56                            |                                | 22.174  | 20.611                | 31.371                     | 1.000             | 157.673         |
|   | 17 - 23                                | Maturity  | 2.964          | 20.748                | 1.050         | 21.785             | 21.000             | 42.785         | 43.23                            |                                | 25.522  | 17.264                | 26.276                     | 1.000             | 132.065         |
|   | 24 - 30                                | Drying  | 2.964          | 20.748                | 1.050         | 21.785             | 21.000             | 42.785         | 117.99                           |                                | 69.658  | 0.000                 | 0.000                      | 1.000             | 0.000           |
| Oct.  | 01 - 07                                | Drying  | 2.672          | 18.704                | 1.050         | 19.639             | 21.000             | 40.639         | 14.85                            |                                | 8.767   | 31.872                | 48.512                     | 1.000             | 243.820         |
|   | <b>Total</b>                           |   |                |                       |               |                    |                    | <b>169.00</b>  | <b>213.63</b>                    | <b>144.320</b>                 | <b>126.121</b>                                |                       |                            |                   |                 |
|   | 08 - 14                                | Harvesting  | 2.672          | 18.704                | 1.050         | 19.639             | 21.000             | 40.639         | 33.34                            |                                |   |                       |                            |                   |                 |
|   | 15 - 21                                |   | 2.672          | 18.704                | 1.050         | 19.639             | 21.000             | 40.639         | 15.25                            |                                |   |                       |                            |                   |                 |
|   | 22 - 28                                |   | 2.672          | 18.704                | 1.050         | 19.639             | 21.000             | 40.639         | 0.43                             |                                |   |                       |                            |                   |                 |
|   |  |   |                |                       |               |                    |                    | <b>121.918</b> | <b>49.020</b>                    |                                |   | <b>262.364</b>        | <b>399.336</b>             |                   | <b>2420.178</b> |
| <b>GRAND TOTAL</b>  | <b>(Depth over cropped area in mm)</b> |   |                |                       |               |                    |                    |                |                                  |                                |   |                       |                            |                   | <b>481.532</b>  |

| <b>ANNEXURE - XII/4</b>   |  |   |                |                       |               |                    |                    |                |                                  |                                |   |                       |                            |                   |                 |
|---|--|---|----------------|-----------------------|---------------|--------------------|--------------------|----------------|----------------------------------|--------------------------------|---|-----------------------|----------------------------|-------------------|-----------------|
| <b>CROP IRRIGATION REQUIREMENT BY MODIFIED PENMAN METHOD - REFER FAO Guidelines Paper - 56</b>                    |  |   |                |                       |               |                    |                    |                |                                  |                                |   |                       |                            |                   |                 |
| <b>Crop Name:- Paddy (s) sowing period :- June 21 -30 Harvesting Period :- Oct. 11 -20 Base Period :- 112 day</b> |  |   |                |                       |               |                    |                    |                |                                  |                                |   |                       |                            |                   |                 |
| <b>Command Area of : KAJHIA WEIR IN GODD DISTRICT OF JHARKHAND</b>  |  |   |                |                       |               |                    |                    |                |                                  |                                |   |                       |                            |                   |                 |
|   |  |   |                |                       |               |                    |                    |                |                                  |                                |   |                       | <b>Kharif Area in Ha =</b> |                   | <b>3109.00</b>  |
| Month   | Date                                   | Agricultural Activity And Stage of Growth of Crop | CALCULATION OF |                       |               |                    |                    |                | 10 - DAY AV. R.F. 1992 - 2013 mm | Effect. R.F. (T - 8) T.S.-2 mm | CHANCE Effect, R.F. Re = Col (13)x 0.8739 (T- | NIR = Etc + P - Re mm | GIR = NIR ÷ 0.657 mm       | GIR PER HA of     |                 |
|   |  |   | ETo Per day mm | ETo For the period mm | Kc crop coeff | Etc = Kc. x ETo nm | P = 3mm per day mm | Total ETc+P mm |                                  |                                |   |                       |                            | % of Area Covered | GIR in HAM      |
| 2   | 3                                      | 4   | 5              | 6                     | 7             | 8                  | 9                  | 10             | 11                               | 13                             | 14  | 15                    | 16                         | 17                | 18              |
| May - June  | 28 - 03                                |   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 14.27                            |                                | 9.510   |                       |                            |                   |                 |
| June  | 04 - 10                                |   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 26.33                            |                                | 17.547  |                       |                            |                   |                 |
|   | 11 - 17                                |   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 32.62                            |                                | 21.739  |                       |                            |                   |                 |
|   | 18 - 24                                | Nursery   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 62.51                            |                                | 41.658  | 5.459                 | 8.308                      | 0.100             | 2.583           |
| June - July   | 25 - 01                                | Nursery   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 59.78                            |                                | 39.839  | 7.278                 | 11.077                     | 0.100             | 3.444           |
| July  | 02 - 08                                | Nursery   | 3.231          | 22.617                | 1.000         | 22.617             | 21.000             | 43.617         | 43.15                            |                                | 28.756  | 14.861                | 22.619                     | 0.100             | 7.032           |
|   | <b>Total</b>                           |   |                |                       |               |                    |                    | <b>279.20</b>  | <b>238.66</b>                    | <b>182.000</b>                 | <b>159.050</b>                                |                       |                            |                   |                 |
|   | 09 - 15                                | P&T   | 3.231          | 22.617                | SPL           |                    |                    | 120.000        |                                  |                                |   |                       |                            |                   | 373.080         |
|   | 16 - 22                                | P&T   | 3.231          | 22.617                | 1.000         | 22.617             | 21.000             | 43.617         | 51.62                            |                                | 28.977  | 14.640                | 22.283                     | 1.000             | 69.278          |
|   | 23 - 29                                | P&T   | 3.231          | 22.617                | 1.000         | 22.617             | 21.000             | 43.617         | 65.91                            |                                | 36.999  | 6.618                 | 10.073                     | 1.000             | 31.318          |
| July - Aug  | 30 - 05                                | Initial Stage Dev.                                | 3.117          | 21.819                | 1.000         | 21.819             | 21.000             | 42.819         | 50.80                            |                                | 28.517  | 14.302                | 21.769                     | 1.000             | 67.680          |
| Aug.  | 06 - 12                                | Mid. Stage Dev.                                   | 3.117          | 21.819                | 1.050         | 22.910             | 21.000             | 43.910         | 68.98                            |                                | 38.722  | 5.188                 | 7.896                      | 1.000             | 24.549          |
|   | 13 - 19                                | Mid. Stage Dev.                                   | 3.117          | 21.819                | 1.050         | 22.910             | 21.000             | 43.910         | 87.51                            |                                | 49.124  | 0.000                 | 0.000                      | 1.000             | 0.000           |
|   | <b>Total</b>                           |   |                |                       |               |                    |                    | <b>217.87</b>  | <b>324.82</b>                    | <b>208.650</b>                 | <b>182.339</b>                                |                       |                            |                   |                 |
|   | 20 - 26                                | Late Stg. Dev.                                    | 3.117          | 21.819                | 1.100         | 24.001             | 21.000             | 81.000         | 84.13                            |                                | 65.110  | 15.890                | 24.185                     | 1.000             | 75.191          |
| Aug. - Sep  | 27 - 02                                | Late Stg. Dev.                                    | 3.117          | 21.819                | 1.100         | 24.001             | 21.000             | 81.000         | 33.43                            |                                | 25.872  | 55.128                | 83.908                     | 1.000             | 260.870         |
| Sept.   | 03 - 09                                | Late Stg. Dev.                                    | 2.964          | 20.748                | 1.100         | 22.823             | 21.000             | 81.000         | 35.85                            |                                | 27.745  | 53.255                | 81.057                     | 1.000             | 252.008         |
|   | <b>Total</b>                           |   |                |                       |               |                    |                    | <b>243.00</b>  | <b>153.41</b>                    | <b>135.860</b>                 | <b>118.728</b>                                |                       |                            |                   |                 |
|   | 10 - 16                                | Maturity  | 2.964          | 20.748                | 1.050         | 21.785             | 21.000             | 42.785         | 37.56                            |                                | 22.174  | 20.611                | 31.371                     | 1.000             | 97.534          |
|   | 17 - 23                                | Maturity  | 2.964          | 20.748                | 1.050         | 21.785             | 21.000             | 42.785         | 43.23                            |                                | 25.522  | 17.264                | 26.276                     | 1.000             | 81.693          |
|   | 24 - 30                                | Drying  | 2.964          | 20.748                | 1.050         | 21.785             | 21.000             | 42.785         | 117.99                           |                                | 69.658  | 0.000                 | 0.000                      | 1.000             | 0.000           |
| Oct.  | 01 - 07                                | Drying  | 2.672          | 18.704                | 1.050         | 19.639             | 21.000             | 40.639         | 14.85                            |                                | 8.767   | 31.872                | 48.512                     | 1.000             | 150.823         |
|   | <b>Total</b>                           |   |                |                       |               |                    |                    | <b>169.00</b>  | <b>213.63</b>                    | <b>144.320</b>                 | <b>126.121</b>                                |                       |                            |                   |                 |
|   | 08 - 14                                | Harvesting  | 2.672          | 18.704                | 1.050         | 19.639             | 21.000             | 40.639         | 33.34                            |                                |   |                       |                            |                   |                 |
|   | 15 - 21                                |   | 2.672          | 18.704                | 1.050         | 19.639             | 21.000             | 40.639         | 15.25                            |                                |   |                       |                            |                   |                 |
|   | 22 - 28                                |   | 2.672          | 18.704                | 1.050         | 19.639             | 21.000             | 40.639         | 0.43                             |                                |   |                       |                            |                   |                 |
|   |  |   |                |                       |               |                    |                    | <b>121.918</b> | <b>49.020</b>                    |                                |   | <b>262.364</b>        | <b>399.336</b>             |                   | <b>1497.082</b> |
| <b>GRAND TOTAL</b>  | <b>(Depth over cropped area in mm)</b> |   |                |                       |               |                    |                    |                |                                  |                                |   |                       |                            |                   | <b>481.532</b>  |

## ANNEXURE - XII/5

**CROP IRRIGATION REQUIREMENT BY MODIFIED PENMAN METHOD - REFER FAO Guidelines Paper - 56**

Crop Name:- Paddy (s) sowing period :- June 21 -30 Harvesting Period :- Oct. 11 -20 Base Period :- 112 day

Command Area of : HARNA (SOUNT - NORTH) WEIRS IN GODDA DISTRICT OF JHARKHAND

|                    |  |   |                |                       |               |                    |                    |                |                                  |                                |   |                       | Kharif Area in Ha =  |                   | 7061.00         |
|--------------------|--|---|----------------|-----------------------|---------------|--------------------|--------------------|----------------|----------------------------------|--------------------------------|---|-----------------------|----------------------|-------------------|-----------------|
| Month              | Date                                   | Agricultural Activity And Stage of Growth of Crop | CALCULATION OF |                       |               |                    |                    |                | 10 - DAY AV. R.F. 1992 - 2013 mm | Effect. R.F. (T - 8) T.S.-2 mm | CHANCE Effect, R.F. Re = Col (13)x 0.8739 (T- | NIR = Etc + P - Re mm | GIR = NIR ÷ 0.657 mm | GIR PER HA of     |                 |
|                    |  |   | ETo Per day mm | ETo For the period mm | Kc crop coeff | Etc = Kc. x ETo mm | P = 3mm per day mm | Total ETc+P mm |                                  |                                |   |                       |                      | % of Area Covered | GIR in HAM      |
| 2                  | 3                                      | 4   | 5              | 6                     | 7             | 8                  | 9                  | 10             | 11                               | 13                             | 14  | 15                    | 16                   | 17                | 18              |
| May - June         | 28 - 03                                |   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 14.27                            |                                | 9.510   |                       |                      |                   |                 |
| June               | 04 - 10                                |   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 26.33                            |                                | 17.547  |                       |                      |                   |                 |
|                    | 11 - 17                                |   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 32.62                            |                                | 21.739  |                       |                      |                   |                 |
|                    | 18 - 24                                | Nursery   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 62.51                            |                                | 41.658  | 5.459                 | 8.308                | 0.100             | 5.866           |
| June - July        | 25 - 01                                | Nursery   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 59.78                            |                                | 39.839  | 7.278                 | 11.077               | 0.100             | 7.822           |
| July               | 02 - 08                                | Nursery   | 3.231          | 22.617                | 1.000         | 22.617             | 21.000             | 43.617         | 43.15                            |                                | 28.756  | 14.861                | 22.619               | 0.100             | 15.971          |
|                    | <b>Total</b>                           |   |                |                       |               |                    |                    | <b>279.20</b>  | <b>238.66</b>                    | <b>182.000</b>                 | <b>159.050</b>                                |                       |                      |                   |                 |
|                    | 09 - 15                                | P&T   | 3.231          | 22.617                | SPL           |                    |                    | 120.000        |                                  |                                |   |                       |                      |                   | 847.320         |
|                    | 16 - 22                                | P&T   | 3.231          | 22.617                | 1.000         | 22.617             | 21.000             | 43.617         | 51.62                            |                                | 28.977  | 14.640                | 22.283               | 1.000             | 157.340         |
|                    | 23 - 29                                | P&T   | 3.231          | 22.617                | 1.000         | 22.617             | 21.000             | 43.617         | 65.91                            |                                | 36.999  | 6.618                 | 10.073               | 1.000             | 71.127          |
| July - Aug         | 30 - 05                                | Initial Stage Dev.                                | 3.117          | 21.819                | 1.000         | 21.819             | 21.000             | 42.819         | 50.80                            |                                | 28.517  | 14.302                | 21.769               | 1.000             | 153.710         |
| Aug.               | 06 - 12                                | Mid. Stage Dev.                                   | 3.117          | 21.819                | 1.050         | 22.910             | 21.000             | 43.910         | 68.98                            |                                | 38.722  | 5.188                 | 7.896                | 1.000             | 55.754          |
|                    | 13 - 19                                | Mid. Stage Dev.                                   | 3.117          | 21.819                | 1.050         | 22.910             | 21.000             | 43.910         | 87.51                            |                                | 49.124  | 0.000                 | 0.000                | 1.000             | 0.000           |
|                    | <b>Total</b>                           |   |                |                       |               |                    |                    | <b>217.87</b>  | <b>324.82</b>                    | <b>208.650</b>                 | <b>182.339</b>                                |                       |                      |                   |                 |
|                    | 20 - 26                                | Late Stg. Dev.                                    | 3.117          | 21.819                | 1.100         | 24.001             | 21.000             | 81.000         | 84.13                            |                                | 65.110  | 15.890                | 24.185               | 1.000             | 170.771         |
| Aug. - Sep         | 27 - 02                                | Late Stg. Dev.                                    | 3.117          | 21.819                | 1.100         | 24.001             | 21.000             | 81.000         | 33.43                            |                                | 25.872  | 55.128                | 83.908               | 1.000             | 592.475         |
| Sept.              | 03 - 09                                | Late Stg. Dev.                                    | 2.964          | 20.748                | 1.100         | 22.823             | 21.000             | 81.000         | 35.85                            |                                | 27.745  | 53.255                | 81.057               | 1.000             | 572.347         |
|                    | <b>Total</b>                           |   |                |                       |               |                    |                    | <b>243.00</b>  | <b>153.41</b>                    | <b>135.860</b>                 | <b>118.728</b>                                |                       |                      |                   |                 |
|                    | 10 - 16                                | Maturity  | 2.964          | 20.748                | 1.050         | 21.785             | 21.000             | 42.785         | 37.56                            |                                | 22.174  | 20.611                | 31.371               | 1.000             | 221.514         |
|                    | 17 - 23                                | Maturity  | 2.964          | 20.748                | 1.050         | 21.785             | 21.000             | 42.785         | 43.23                            |                                | 25.522  | 17.264                | 26.276               | 1.000             | 185.538         |
|                    | 24 - 30                                | Drying  | 2.964          | 20.748                | 1.050         | 21.785             | 21.000             | 42.785         | 117.99                           |                                | 69.658  | 0.000                 | 0.000                | 1.000             | 0.000           |
| Oct.               | 01 - 07                                | Drying  | 2.672          | 18.704                | 1.050         | 19.639             | 21.000             | 40.639         | 14.85                            |                                | 8.767   | 31.872                | 48.512               | 1.000             | 342.541         |
|                    | <b>Total</b>                           |   |                |                       |               |                    |                    | <b>169.00</b>  | <b>213.63</b>                    | <b>144.320</b>                 | <b>126.121</b>                                |                       |                      |                   |                 |
|                    | 08 - 14                                | Harvesting  | 2.672          | 18.704                | 1.050         | 19.639             | 21.000             | 40.639         | 33.34                            |                                |   |                       |                      |                   |                 |
|                    | 15 - 21                                |   | 2.672          | 18.704                | 1.050         | 19.639             | 21.000             | 40.639         | 15.25                            |                                |   |                       |                      |                   |                 |
|                    | 22 - 28                                |   | 2.672          | 18.704                | 1.050         | 19.639             | 21.000             | 40.639         | 0.43                             |                                |   |                       |                      |                   |                 |
|                    |  |   |                |                       |               |                    |                    | <b>121.918</b> | <b>49.020</b>                    |                                |   | <b>262.364</b>        | <b>399.336</b>       |                   | <b>3400.095</b> |
| <b>GRAND TOTAL</b> | <b>(Depth over cropped area in mm)</b> |   |                |                       |               |                    |                    |                |                                  |                                |   |                       |                      |                   | <b>481.532</b>  |

## ANNEXURE - XII/6

**CROP IRRIGATION REQUIREMENT BY MODIFIED PENMAN METHOD - REFER FAO Guidelines Paper - 56****Crop Name:- Paddy (s) sowing period :- June 21 -30 Harvesting Period :- Oct. 11 -20 Base Period :- 112 day****Command Area of : SONHAULA WEIR IN BHAGALPUR DISTRICT OF BIHAR**

|                    |  |   |                |                       |               |                    |                    |                |                                  |                                |   |                       | Kharif Area in Ha =  |                   | 2024.00        |                |
|--------------------|--|---|----------------|-----------------------|---------------|--------------------|--------------------|----------------|----------------------------------|--------------------------------|---|-----------------------|----------------------|-------------------|----------------|----------------|
| Month              | Date                                   | Agricultural Activity And Stage of Growth of Crop | CALCULATION OF |                       |               |                    |                    |                | 10 - DAY AV. R.F. 1992 - 2013 mm | Effect. R.F. (T - 8) T.S.-2 mm | CHANCE Effect, R.F. Re = Col (13)x 0.8739 (T- | NIR = Etc + P - Re mm | GIR = NIR ÷ 0.657 mm | GIR PER HA of     |                |                |
|                    |  |   | ETo Per day mm | ETo For the period mm | Kc crop coeff | Etc = Kc. x ETo mm | P = 3mm per day mm | Total ETC+P mm |                                  |                                |   |                       |                      | % of Area Covered | GIR in HAM     |                |
| 2                  | 3                                      | 4   | 5              | 6                     | 7             | 8                  | 9                  | 10             | 11                               | 13                             | 14  | 15                    | 16                   | 17                | 18             |                |
| May - June         | 28 - 03                                |   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 14.27                            |                                | 9.510   |                       |                      |                   |                |                |
| June               | 04 - 10                                |   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 26.33                            |                                | 17.547  |                       |                      |                   |                |                |
|                    | 11 - 17                                |   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 32.62                            |                                | 21.739  |                       |                      |                   |                |                |
|                    | 18 - 24                                | Nursery   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 62.51                            |                                | 41.658  | 5.459                 | 8.308                | 0.100             | 1.682          |                |
| June - July        | 25 - 01                                | Nursery   | 3.731          | 26.117                | 1.000         | 26.117             | 21.000             | 47.117         | 59.78                            |                                | 39.839  | 7.278                 | 11.077               | 0.100             | 2.242          |                |
| July               | 02 - 08                                | Nursery   | 3.231          | 22.617                | 1.000         | 22.617             | 21.000             | 43.617         | 43.15                            |                                | 28.756  | 14.861                | 22.619               | 0.100             | 4.578          |                |
|                    | <b>Total</b>                           |   |                |                       |               |                    |                    | <b>279.20</b>  | <b>238.66</b>                    | <b>182.000</b>                 | <b>159.050</b>                                |                       |                      |                   |                |                |
|                    | 09 - 15                                | P&T   | 3.231          | 22.617                | SPL           |                    |                    | 120.000        |                                  |                                |   |                       |                      |                   | 242.880        |                |
|                    | 16 - 22                                | P&T   | 3.231          | 22.617                | 1.000         | 22.617             | 21.000             | 43.617         | 51.62                            |                                | 28.977  | 14.640                | 22.283               | 1.000             | 45.101         |                |
|                    | 23 - 29                                | P&T   | 3.231          | 22.617                | 1.000         | 22.617             | 21.000             | 43.617         | 65.91                            |                                | 36.999  | 6.618                 | 10.073               | 1.000             | 20.388         |                |
| July - Aug         | 30 - 05                                | Initial Stage Dev.                                | 3.117          | 21.819                | 1.000         | 21.819             | 21.000             | 42.819         | 50.80                            |                                | 28.517  | 14.302                | 21.769               | 1.000             | 44.060         |                |
| Aug.               | 06 - 12                                | Mid. Stage Dev.                                   | 3.117          | 21.819                | 1.050         | 22.910             | 21.000             | 43.910         | 68.98                            |                                | 38.722  | 5.188                 | 7.896                | 1.000             | 15.982         |                |
|                    | 13 - 19                                | Mid. Stage Dev.                                   | 3.117          | 21.819                | 1.050         | 22.910             | 21.000             | 43.910         | 87.51                            |                                | 49.124  | 0.000                 | 0.000                | 1.000             | 0.000          |                |
|                    | <b>Total</b>                           |   |                |                       |               |                    |                    | <b>217.87</b>  | <b>324.82</b>                    | <b>208.650</b>                 | <b>182.339</b>                                |                       |                      |                   |                |                |
|                    | 20 - 26                                | Late Stg. Dev.                                    | 3.117          | 21.819                | 1.100         | 24.001             | 21.000             | 81.000         | 84.13                            |                                | 65.110  | 15.890                | 24.185               | 1.000             | 48.951         |                |
| Aug. - Sep         | 27 - 02                                | Late Stg. Dev.                                    | 3.117          | 21.819                | 1.100         | 24.001             | 21.000             | 81.000         | 33.43                            |                                | 25.872  | 55.128                | 83.908               | 1.000             | 169.830        |                |
| Sept.              | 03 - 09                                | Late Stg. Dev.                                    | 2.964          | 20.748                | 1.100         | 22.823             | 21.000             | 81.000         | 35.85                            |                                | 27.745  | 53.255                | 81.057               | 1.000             | 164.060        |                |
|                    | <b>Total</b>                           |   |                |                       |               |                    |                    | <b>243.00</b>  | <b>153.41</b>                    | <b>135.860</b>                 | <b>118.728</b>                                |                       |                      |                   |                |                |
|                    | 10 - 16                                | Maturity  | 2.964          | 20.748                | 1.050         | 21.785             | 21.000             | 42.785         | 37.56                            |                                | 22.174  | 20.611                | 31.371               | 1.000             | 63.496         |                |
|                    | 17 - 23                                | Maturity  | 2.964          | 20.748                | 1.050         | 21.785             | 21.000             | 42.785         | 43.23                            |                                | 25.522  | 17.264                | 26.276               | 1.000             | 53.183         |                |
|                    | 24 - 30                                | Drying  | 2.964          | 20.748                | 1.050         | 21.785             | 21.000             | 42.785         | 117.99                           |                                | 69.658  | 0.000                 | 0.000                | 1.000             | 0.000          |                |
| Oct.               | 01 - 07                                | Drying  | 2.672          | 18.704                | 1.050         | 19.639             | 21.000             | 40.639         | 14.85                            |                                | 8.767   | 31.872                | 48.512               | 1.000             | 98.188         |                |
|                    | <b>Total</b>                           |   |                |                       |               |                    |                    | <b>169.00</b>  | <b>213.63</b>                    | <b>144.320</b>                 | <b>126.121</b>                                |                       |                      |                   |                |                |
|                    | 08 - 14                                | Harvesting  | 2.672          | 18.704                | 1.050         | 19.639             | 21.000             | 40.639         | 33.34                            |                                |   |                       |                      |                   |                |                |
|                    | 15 - 21                                |   | 2.672          | 18.704                | 1.050         | 19.639             | 21.000             | 40.639         | 15.25                            |                                |   |                       |                      |                   |                |                |
|                    | 22 - 28                                |   | 2.672          | 18.704                | 1.050         | 19.639             | 21.000             | 40.639         | 0.43                             |                                |   |                       |                      |                   |                |                |
|                    |  |   |                |                       |               |                    |                    | <b>121.918</b> | <b>49.020</b>                    |                                |   | <b>262.364</b>        | <b>399.336</b>       |                   | <b>974.620</b> |                |
| <b>GRAND TOTAL</b> | <b>(Depth over cropped area in mm)</b> |   |                |                       |               |                    |                    |                |                                  |                                |   |                       |                      |                   |                | <b>481.532</b> |



## Annexure - XIII

## SIMULATION STUDY OF WATER AVAILABILITY VRS. WATER REQUIREMENT IN CHIR SUB BASIN (IN HAM)

| Sl. No. | Week No. | Water Available in Sukhania Weir | Water Req. in Sukhania Weir | Excess Water or Deficient Water | Water Available in Dakai Weir | Water Req. in Dakai Weir | Excess Water or Deficient Water | Water Available in Trivani Weir | Water Req. in Trivani Weir | Excess Water or Deficient Water | Water Available in Kajhia Weir | Water Req. in Kajhia Weir | Excess Water or Deficient Water | Water Available in Harna (North & South) Weirs | Water Req. in Harna (North & South) Weirs | Excess Water or Deficient Water | Water Available in Sonhaua Weir | Water Req. in Sonhaua Weir | Excess Water or Deficient Water | Water Available at Withdrawal Site from Free CA | Total Excess Water or Deficient Water from Weir Schemes | Total Available Water at Withdrawal Site | Remarks |
|---------|----------|----------------------------------|-----------------------------|---------------------------------|-------------------------------|--------------------------|---------------------------------|---------------------------------|----------------------------|---------------------------------|--------------------------------|---------------------------|---------------------------------|--|---|---------------------------------|---------------------------------|----------------------------|---------------------------------|---|---|--|---------|
| 1       | 2        | 3                                | 4                           | 5                               | 6                             | 7                        | 8                               | 9                               | 10                         | 11                              | 12                             | 13                        | 14                              | 15   | 16  | 17                              | 18                              | 19                         | 20                              | 21  | 22  | 23                                       | 24      |
| 1       | 1st      | 22.94                            |                             | 22.94                           | 35.29                         |                          | 35.29                           | 91.31                           |                            | 91.31                           | 80.72                          |                           | 80.72                           | 56.90  |   | 56.90                           | 0.00                            |                            | 0.00                            | 291.58  | 287.17  | 578.75                                   |         |
| 2       | 2nd      | 24.43                            |                             | 24.43                           | 37.58                         |                          | 37.58                           | 97.25                           |                            | 97.25                           | 85.97                          |                           | 85.97                           | 60.61  |   | 60.61                           | 0.00                            |                            | 0.00                            | 310.54  | 305.84  | 616.39                                   |         |
| 3       | 3rd      | 19.67                            |                             | 19.67                           | 30.26                         |                          | 30.26                           | 78.31                           |                            | 78.31                           | 69.23                          |                           | 69.23                           | 48.80  |   | 48.80                           | 0.00                            |                            | 0.00                            | 250.06  | 246.28  | 496.34                                   |         |
| 4       | 4th      | 21.62                            |                             | 21.62                           | 33.26                         |                          | 33.26                           | 86.05                           |                            | 86.05                           | 76.08                          |                           | 76.08                           | 53.63  |   | 53.63                           | 0.00                            |                            | 0.00                            | 274.79  | 270.64  | 545.43                                   |         |
| 5       | 5th      | 11.33                            |                             | 11.33                           | 17.43                         |                          | 17.43                           | 45.10                           |                            | 45.10                           | 39.87                          |                           | 39.87                           | 28.11  |   | 28.11                           | 0.00                            |                            | 0.00                            | 144.03  | 141.85  | 285.88                                   |         |
| 6       | 6th      | 41.77                            |                             | 41.77                           | 64.26                         |                          | 64.26                           | 166.26                          |                            | 166.26                          | 146.99                         |                           | 146.99                          | 103.61   |   | 103.61                          | 0.00                            |                            | 0.00                            | 530.92  | 522.88  | 1053.80                                  |         |
| 7       | 7th      | 14.43                            |                             | 14.43                           | 22.20                         |                          | 22.20                           | 57.45                           |                            | 57.45                           | 50.78                          |                           | 50.78                           | 35.80  |   | 35.80                           | 0.00                            |                            | 0.00                            | 183.44  | 180.66  | 364.10                                   |         |
| 8       | 8th      | 9.26                             |                             | 9.26                            | 14.25                         |                          | 14.25                           | 36.87                           |                            | 36.87                           | 32.59                          |                           | 32.59                           | 22.97  |   | 22.97                           | 0.00                            |                            | 0.00                            | 117.72  | 115.94  | 233.66                                   |         |
| 9       | 9th      | 18.64                            |                             | 18.64                           | 28.68                         |                          | 28.68                           | 74.22                           |                            | 74.22                           | 65.61                          |                           | 65.61                           | 46.25  |   | 46.25                           | 0.00                            |                            | 0.00                            | 237.00  | 233.42  | 470.42                                   |         |
| 10      | 10th     | 18.64                            |                             | 18.64                           | 28.68                         |                          | 28.68                           | 74.20                           |                            | 74.20                           | 65.59                          |                           | 65.59                           | 46.24  |   | 46.24                           | 0.00                            |                            | 0.00                            | 236.93  | 233.34  | 470.27                                   |         |
| 11      | 11th     | 15.83                            |                             | 15.83                           | 24.36                         |                          | 24.36                           | 63.03                           |                            | 63.03                           | 55.72                          |                           | 55.72                           | 39.28  |   | 39.28                           | 0.00                            |                            | 0.00                            | 201.27  | 198.22  | 399.49                                   |         |
| 12      | 12th     | 10.72                            |                             | 10.72                           | 16.50                         |                          | 16.50                           | 42.68                           |                            | 42.68                           | 37.73                          |                           | 37.73                           | 26.60  |   | 26.60                           | 0.00                            |                            | 0.00                            | 136.29  | 134.23  | 270.52                                   |         |
| 13      | 13th     | 7.47                             |                             | 7.47                            | 11.49                         |                          | 11.49                           | 29.72                           |                            | 29.72                           | 26.28                          |                           | 26.28                           | 18.52  |   | 18.52                           | 0.00                            |                            | 0.00                            | 94.91   | 93.48   | 188.39                                   |         |
| 14      | 14th     | 5.46                             |                             | 5.46                            | 8.41                          |                          | 8.41                            | 21.75                           |                            | 21.75                           | 19.23                          |                           | 19.23                           | 13.56  |   | 13.56                           | 0.00                            |                            | 0.00                            | 69.46   | 68.41   | 137.87                                   |         |
| 15      | 15th     | 5.14                             |                             | 5.14                            | 7.91                          |                          | 7.91                            | 20.47                           |                            | 20.47                           | 18.10                          |                           | 18.10                           | 12.76  |   | 12.76                           | 0.00                            |                            | 0.00                            | 65.37   | 64.38   | 129.76                                   |         |
| 16      | 16th     | 7.03                             |                             | 7.03                            | 10.82                         |                          | 10.82                           | 27.99                           |                            | 27.99                           | 24.75                          |                           | 24.75                           | 17.44  |   | 17.44                           | 0.00                            |                            | 0.00                            | 89.38   | 88.03   | 177.41                                   |         |
| 17      | 17th     | 5.82                             |                             | 5.82                            | 8.95                          |                          | 8.95                            | 23.17                           |                            | 23.17                           | 20.48                          |                           | 20.48                           | 14.44  |   | 14.44                           | 0.00                            |                            | 0.00                            | 73.98   | 72.86   | 146.84                                   |         |
| 18      | 18th     | 2.01                             |                             | 2.01                            | 3.09                          |                          | 3.09                            | 8.00                            |                            | 8.00                            | 7.07                           |                           | 7.07                            | 4.99   |   | 4.99                            | 0.00                            |                            | 0.00                            | 25.54   | 25.16   | 50.70                                    |         |
| 19      | 19th     | 3.63                             |                             | 3.63                            | 5.59                          |                          | 5.59                            | 14.47                           |                            | 14.47                           | 12.79                          |                           | 12.79                           | 9.02   |   | 9.02                            | 0.00                            |                            | 0.00                            | 46.20   | 45.50   | 91.70                                    |         |
| 20      | 20th     | 3.58                             |                             | 3.58                            | 5.51                          |                          | 5.51                            | 14.25                           |                            | 14.25                           | 12.60                          |                           | 12.60                           | 8.88   |   | 8.88                            | 0.00                            |                            | 0.00                            | 45.50   | 44.81   | 90.31                                    |         |
| 21      | 21st     | 5.54                             |                             | 5.54                            | 8.52                          |                          | 8.52                            | 22.04                           |                            | 22.04                           | 19.49                          |                           | 19.49                           | 13.74  |   | 13.74                           | 0.00                            |                            | 0.00                            | 70.38   | 69.32   | 139.70                                   |         |
| 22      | 22nd     | 23.18                            |                             | 23.18                           | 35.65                         |                          | 35.65                           | 92.26                           |                            | 92.26                           | 81.56                          |                           | 81.56                           | 57.49  |   | 57.49                           | 0.00                            |                            | 0.00                            | 294.60  | 290.14  | 584.74                                   |         |
| 23      | 23rd     | 10.52                            |                             | 10.52                           | 16.19                         |                          | 16.19                           | 41.89                           |                            | 41.89                           | 37.03                          |                           | 37.03                           | 26.11  |   | 26.11                           | 0.00                            |                            | 0.00                            | 133.76  | 131.74  | 265.50                                   |         |
| 24      | 24th     | 11.52                            |                             | 11.52                           | 17.72                         |                          | 17.72                           | 45.85                           |                            | 45.85                           | 40.53                          |                           | 40.53                           | 28.57  |   | 28.57                           | 0.00                            |                            | 0.00                            | 146.40  | 144.18  | 290.58                                   |         |
| 25      | 25th     | 38.86                            | 1.13                        | 37.73                           | 59.78                         | 0.26                     | 59.52                           | 154.68                          | 4.18                       | 150.50                          | 136.74                         | 2.58                      | 134.16                          | 96.39  | 5.87                                      | 90.53                           | 0.00                            | 1.68                       | -1.68                           | 493.92  | 472.44  | 966.36                                   |         |
| 26      | 26th     | 45.97                            | 1.50                        | 44.46                           | 70.72                         | 0.35                     | 70.37                           | 182.98                          | 5.57                       | 177.42                          | 161.77                         | 3.44                      | 158.32                          | 114.03   | 7.82                                      | 106.21                          | 0.00                            | 2.24                       | -2.24                           | 584.31  | 556.79  | 1141.10                                  |         |
| 27      | 27th     | 24.28                            | 3.07                        | 21.21                           | 37.35                         | 0.71                     | 36.64                           | 96.64                           | 11.37                      | 85.27                           | 85.44                          | 7.03                      | 78.40                           | 60.23  | 15.97                                     | 44.25                           | 0.00                            | 4.58                       | -4.58                           | 308.60  | 265.78  | 574.38                                   |         |
| 28      | 28th     | 65.21                            | 162.72                      | 0.00                            | 100.33                        | 37.80                    | 62.53                           | 259.59                          | 603.12                     | 0.00                            | 229.50                         | 373.08                    | 0.00                            | 161.78   | 847.32                                    | 0.00                            | 0.00                            | 242.88                     | -242.88                         | 828.94  | 62.53   | 891.47                                   |         |
| 29      | 29th     | 40.26                            | 30.22                       | 10.05                           | 61.94                         | 7.02                     | 54.92                           | 160.28                          | 111.99                     | 48.29                           | 141.70                         | 69.28                     | 72.42                           | 99.88  | 157.34                                    | 0.00                            | 0.00                            | 45.10                      | -45.10                          | 511.81  | 185.68  | 697.49                                   |         |
| 30      | 30th     | 42.45                            | 13.66                       | 28.79                           | 65.30                         | 3.17                     | 62.13                           | 168.97                          | 50.63                      | 118.34                          | 149.38                         | 31.32                     | 118.06                          | 105.30   | 71.13                                     | 34.17                           | 0.00                            | 20.39                      | -20.39                          | 539.56  | 361.49  | 901.05                                   |         |
| 31      | 31st     | 61.34                            | 29.52                       | 31.82                           | 94.36                         | 6.86                     | 87.50                           | 244.16                          | 109.41                     | 134.75                          | 215.85                         | 67.68                     | 148.17                          | 152.16   | 153.71                                    | 0.00                            | 0.00                            | 44.06                      | -44.06                          | 779.66  | 402.24  | 1181.90                                  |         |
| 32      | 32nd     | 87.62                            | 10.71                       | 76.91                           | 134.80                        | 2.49                     | 132.31                          | 348.80                          | 39.69                      | 309.11                          | 308.36                         | 24.55                     | 283.81                          | 217.37   | 55.75                                     | 161.61                          | 0.00                            | 15.98                      | -15.98                          | 1113.80   | 963.76  | 2077.56                                  |         |
| 33      | 33rd     | 144.50                           | 0.00                        | 144.50                          | 222.31                        | 0.00                     | 222.31                          | 575.22                          | 0.00                       | 575.22                          | 508.53                         | 0.00                      | 508.53                          | 358.47   | 0.00                                      | 358.47                          | 0.00                            | 0.00                       | 0.00                            | 1836.82   | 1809.03   | 3645.85                                  |         |
| 34      | 34th     | 84.56                            | 32.79                       | 51.77                           | 130.10                        | 7.62                     | 122.48                          | 336.62                          | 121.55                     | 215.07                          | 297.59                         | 75.19                     | 222.40                          | 209.78   | 170.77                                    | 39.01                           | 0.00                            | 48.95                      | -48.95                          | 1074.91   | 650.72  | 1725.63                                  |         |
| 35      | 35th     | 39.30                            | 113.78                      | 0.00                            | 60.47                         | 26.43                    | 34.03                           | 156.45                          | 421.72                     | 0.00                            | 138.32                         | 260.87                    | 0.00                            | 97.50  | 592.48                                    | 0.00                            | 0.00                            | 169.83                     | -169.83                         | 499.60  | 34.03   | 533.63                                   |         |
| 36      | 36th     | 67.53                            | 109.91                      | 0.00                            | 103.89                        | 25.53                    | 78.36                           | 268.82                          | 407.39                     | 0.00                            | 237.65                         | 252.01                    | 0.00                            | 167.52   | 572.35                                    | 0.00                            | 0.00                            | 164.06                     | -164.06                         | 858.40  | 78.36   | 936.76                                   |         |
| 37      | 37th     | 52.80                            | 42.54                       | 10.26                           | 81.23                         | 9.88                     | 71.35                           | 210.19                          | 157.67                     | 52.52                           | 185.82                         | 97.53                     | 88.29                           | 130.99   | 221.51                                    | 0.00                            | 0.00                            | 63.50                      | -63.50                          | 671.20  | 222.43  | 893.63                                   |         |
| 38      | 38th     | 73.73                            | 35.63                       | 38.10                           | 113.44                        | 8.28                     | 105.16                          | 293.52                          | 132.07                     | 161.45                          | 259.49                         | 81.69                     | 177.79                          | 182.92   | 185.54                                    | 0.00                            | 0.00                            | 53.18                      | -53.18                          | 937.27  | 482.50  | 1419.77                                  |         |
| 39      | 39th     | 169.85                           | 0.00                        | 169.85                          | 261.31                        | 0.00                     | 261.31                          | 676.13                          | 0.00                       | 676.13                          | 597.74                         | 0.00                      | 597.74                          | 421.35   | 0.00                                      | 421.35                          | 0.00                            | 0.00                       | 0.00                            | 2159.03   | 2126.37   | 4285.40                                  |         |

| Sl. No.      | Week No. | Water Available in Sukhania Weir | Water Req. in Sukhania Weir | Excess Water or Deficient Water | Water Available in Dakai Weir | Water Req. in Dakai Weir | Excess Water or Deficient Water | Water Available in Trivani Weir | Water Req. in Trivani Weir | Excess Water or Deficient Water | Water Available in Kajhia Weir | Water Req. in Kajhia Weir | Excess Water or Deficient Water | Water Available in Harna (North & South) Weirs | Water Req. in Harna (North & South) Weirs | Excess Water or Deficient Water | Water Available in Sonhaura Weir | Water Req. in Sonhaura Weir | Excess Water or Deficient Water | Water Available at Withdrawal Site from Free CA | Total Excess Water or Deficient Water from Weir Schemes | Total Available Water at Withdrawal Site | Remarks |
|--------------|----------|----------------------------------|-----------------------------|---------------------------------|-------------------------------|--------------------------|---------------------------------|---------------------------------|----------------------------|---------------------------------|--------------------------------|---------------------------|---------------------------------|--|---|---------------------------------|----------------------------------|-----------------------------|---------------------------------|---|---|--|---------|
| 1            | 2        | 3                                | 4                           | 5                               | 6                             | 7                        | 8                               | 9                               | 10                         | 11                              | 12                             | 13                        | 14                              | 15   | 16  | 17                              | 18                               | 19                          | 20                              | 21  | 22  | 23                                       | 24      |
| 40           | 40th     | 50.51                            | 65.78                       | 0.00                            | 77.70                         | 15.28                    | 62.42                           | 201.06                          | 243.82                     | 0.00                            | 177.75                         | 150.82                    | 26.92                           | 125.30   | 342.54                                    | 0.00                            | 0.00                             | 98.19                       | -98.19                          | 642.03  | 89.35   | 633.19                                   |         |
| 41           | 41st     | 78.41                            |                             | 78.41                           | 120.63                        |                          | 120.63                          | 312.12                          |                            | 312.12                          | 275.93                         |                           | 275.93                          | 194.51   |   | 194.51                          | 0.00                             |                             | 0.00                            | 996.67  | 981.59  | 1978.26                                  |         |
| 42           | 42nd     | 56.97                            |                             | 56.97                           | 87.65                         |                          | 87.65                           | 226.79                          |                            | 226.79                          | 200.50                         |                           | 200.50                          | 141.34   |   | 141.34                          | 0.00                             |                             | 0.00                            | 724.21  | 713.25  | 1437.46                                  |         |
| 43           | 43rd     | 15.61                            |                             | 15.61                           | 24.02                         |                          | 24.02                           | 62.15                           |                            | 62.15                           | 54.95                          |                           | 54.95                           | 38.73  |   | 38.73                           | 0.00                             |                             | 0.00                            | 198.47  | 195.46  | 393.93                                   |         |
| 44           | 44th     | 45.21                            |                             | 45.21                           | 69.55                         |                          | 69.55                           | 179.95                          |                            | 179.95                          | 159.09                         |                           | 159.09                          | 112.15   |   | 112.15                          | 0.00                             |                             | 0.00                            | 574.64  | 565.94  | 1140.58                                  |         |
| 45           | 45th     | 42.29                            |                             | 42.29                           | 65.07                         |                          | 65.07                           | 168.36                          |                            | 168.36                          | 148.84                         |                           | 148.84                          | 104.92   |   | 104.92                          | 0.00                             |                             | 0.00                            | 537.61  | 529.47  | 1067.08                                  |         |
| 46           | 46th     | 35.57                            |                             | 35.57                           | 54.72                         |                          | 54.72                           | 141.59                          |                            | 141.59                          | 125.17                         |                           | 125.17                          | 88.24  |   | 88.24                           | 0.00                             |                             | 0.00                            | 452.13  | 445.29  | 897.42                                   |         |
| 47           | 47th     | 5.65                             |                             | 5.65                            | 8.70                          |                          | 8.70                            | 22.51                           |                            | 22.51                           | 19.90                          |                           | 19.90                           | 14.03  |   | 14.03                           | 0.00                             |                             | 0.00                            | 71.88   | 70.79   | 142.66                                   |         |
| 48           | 48th     | 4.24                             |                             | 4.24                            | 6.52                          |                          | 6.52                            | 16.88                           |                            | 16.88                           | 14.92                          |                           | 14.92                           | 10.52  |   | 10.52                           | 0.00                             |                             | 0.00                            | 53.89   | 53.07   | 106.96                                   |         |
| 49           | 49th     | 6.23                             |                             | 6.23                            | 9.58                          |                          | 9.58                            | 24.79                           |                            | 24.79                           | 21.91                          |                           | 21.91                           | 15.45  |   | 15.45                           | 0.00                             |                             | 0.00                            | 79.15   | 77.96   | 157.11                                   |         |
| 50           | 50th     | 8.02                             |                             | 8.02                            | 12.33                         |                          | 12.33                           | 31.92                           |                            | 31.92                           | 28.22                          |                           | 28.22                           | 19.89  |   | 19.89                           | 0.00                             |                             | 0.00                            | 101.92  | 100.38  | 202.29                                   |         |
| 51           | 51st     | 7.80                             |                             | 7.80                            | 12.00                         |                          | 12.00                           | 31.05                           |                            | 31.05                           | 27.45                          |                           | 27.45                           | 19.35  |   | 19.35                           | 0.00                             |                             | 0.00                            | 99.16   | 97.66   | 196.82                                   |         |
| 52           | 52nd     | 36.64                            |                             | 36.64                           | 56.37                         |                          | 56.37                           | 145.85                          |                            | 145.85                          | 128.94                         |                           | 128.94                          | 90.89  |   | 90.89                           | 0.00                             |                             | 0.00                            | 465.74  | 458.70  | 924.44                                   |         |
| <b>Total</b> |          | <b>1751.59</b>                   | <b>652.96</b>               | <b>1328.27</b>                  | <b>2694.75</b>                | <b>151.68</b>            | <b>2543.07</b>                  | <b>6972.67</b>                  | <b>2420.18</b>             | <b>5342.62</b>                  | <b>6164.24</b>                 | <b>1497.08</b>            | <b>4947.66</b>                  | <b>4345.28</b>                                 | <b>3400.10</b>                            | <b>2899.93</b>                  | <b>0.00</b>                      | <b>974.62</b>               | <b>-974.62</b>                  | <b>22265.37</b>                                 | <b>17061.55</b>   | <b>38352.30</b>                          |         |

# **ADANI POWER (JHARKHAND) LIMITED**

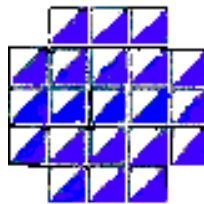
## **REPORT ON WATER AVAILABILITY AT PROPOSED WITHDRAWAL POINT IN CHIR RIVER**

**VOLUME – II**

**(REPORT & HYDROLOGICAL ANALYSIS)**

**MARCH - 2016**

**by**



**NANO SYSTEM CONSULTANTS PVT. LTD.**

**(An ISO 9001-2000 Certified Company)**

**Dr Fatehullah Road,**

**Roy Compound,**

**Ranchi-1**

**Tel No. – (+) 91 – 94311 14015**

**E-mail – [nano\\_ranchi@sify.com](mailto:nano_ranchi@sify.com)**

**[nano\\_ranchi@rediffmail.com](mailto:nano_ranchi@rediffmail.com)**

## **TABLE OF CONTENTS**

| <b>S. No.</b> | <b>Particulars</b>  | <b>Page Nos.</b> |
|---------------|---|------------------|
| 1             | Annexure-I- Daily Inflow data at Chandan Dam  | 1-249            |
| 2             | Annexure-II – Weekly Inflow data at Chandan Dam   | 250-252          |
| 3             | Annexure-III – Index Map showing Catchment Area of Chandan Reservoir & Thiessen Polygon | 253              |
| 4             | Annexure- IV/1 – IMD Weekly Rainfall data for Katoriya & Deoghar RG Stations            | 254              |
| 5             | Annexure - IV/2 – Computation of Weekly weighted Rainfall for Chandan Reservoir         | 255-257          |
| 6             | Annexure – IV/3 – Summary of Weekly weighted Rainfall for Chandan Reservoir             | 258              |

| CHANDAN DAM OBSERVED DISCHARGE DATA AND COMPUTATION OF WEEKLY INFLOW DATA |                        |                                   |                                       |                       |                    |                         |                      |                            |                         |                                     |         |
|---|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
| Date  | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 1   | 2                      | 3                                 | 4                                     | 5                     | 6                  | 7                       | 8                    | 9                          | 10                      | 11                                  | 12      |
| 04-01-1992  | 433.30                 | 1.873                             |                                       | 10                    | 0.0247             |                         | 0.0000               |                            | 0.0000                  | 0.025                               |         |
| 2   | 433.20                 | 1.850                             | -0.023                                | 10                    | 0.0247             |                         | 0.0000               |                            | 0.0000                  | 0.002                               |         |
| 3   | 433.20                 | 1.850                             | 0.000                                 | 10                    | 0.0247             |                         | 0.0000               |                            | 0.0000                  | 0.025                               |         |
| 4   | 433.10                 | 1.827                             | -0.023                                | 10                    | 0.0247             |                         | 0.0000               |                            | 0.0000                  | 0.002                               |         |
| 5   | 433.00                 | 1.804                             | -0.023                                | 15                    | 0.0370             |                         | 0.0000               |                            | 0.0000                  | 0.014                               |         |
| 6   | 433.00                 | 1.804                             | 0.000                                 | 10                    | 0.0247             |                         | 0.0000               |                            | 0.0000                  | 0.025                               |         |
| 7   | 432.80                 | 1.758                             | -0.046                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.078                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-0.115</b>                         |                       | <b>0.284</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.169</b>                        |         |
| 8   | 432.60                 | 1.713                             | -0.046                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.078                               |         |
| 9   | 432.40                 | 1.667                             | -0.046                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.078                               |         |
| 10  | 432.10                 | 1.599                             | -0.068                                | 75                    | 0.1851             |                         | 0.0000               |                            | 0.0000                  | 0.117                               |         |
| 11  | 431.80                 | 1.508                             | -0.091                                | 75                    | 0.1851             |                         | 0.0000               |                            | 0.0000                  | 0.094                               |         |
| 12  | 431.50                 | 1.462                             | -0.046                                | 75                    | 0.1851             |                         | 0.0000               |                            | 0.0000                  | 0.140                               |         |
| 13  | 431.30                 | 1.416                             | -0.046                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.078                               |         |
| 14  | 431.10                 | 1.371                             | -0.046                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.078                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-0.387</b>                         |                       | <b>1.049</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.661</b>                        |         |
| 15  | 430.80                 | 1.302                             | -0.068                                | 75                    | 0.1851             |                         | 0.0000               |                            | 0.0000                  | 0.117                               |         |
| 16  | 430.80                 | 1.302                             | 0.000                                 | 6                     | 0.0148             |                         | 0.0000               |                            | 0.0000                  | 0.015                               |         |
| 17  | 430.80                 | 1.302                             | 0.000                                 | 6                     | 0.0148             |                         | 0.0000               |                            | 0.0000                  | 0.015                               |         |
| 18  | 430.80                 | 1.302                             | 0.000                                 | 6                     | 0.0148             |                         | 0.0000               |                            | 0.0000                  | 0.015                               |         |
| 19  | 430.80                 | 1.302                             | 0.000                                 | 6                     | 0.0148             |                         | 0.0000               |                            | 0.0000                  | 0.015                               |         |
| 20  | 430.70                 | 1.280                             | -0.023                                | 5                     | 0.0123             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21  | 430.70                 | 1.280                             | 0.000                                 | 5                     | 0.0123             |                         | 0.0000               |                            | 0.0000                  | 0.012                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-0.091</b>                         |                       | <b>0.269</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.188</b>                        |         |
| 22  | 430.70                 | 1.280                             | 0.000                                 | 5                     | 0.0123             |                         | 0.0000               |                            | 0.0000                  | 0.012                               |         |
| 23  | 430.70                 | 1.280                             | 0.000                                 | 5                     | 0.0123             |                         | 0.0000               |                            | 0.0000                  | 0.012                               |         |

| Date              | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 24                | 430.70                 | 1.280                             | 0.000                                 | 5                     | 0.0123             |                         | 0.0000               |                            | 0.0000                  | 0.012                               |         |
| 25                | 430.70                 | 1.280                             | 0.000                                 | 3                     | 0.0074             |                         | 0.0000               |                            | 0.0000                  | 0.007                               |         |
| 26                | 430.70                 | 1.280                             | 0.000                                 | 3                     | 0.0074             |                         | 0.0000               |                            | 0.0000                  | 0.007                               |         |
| 27                | 430.70                 | 1.280                             | 0.000                                 | 3                     | 0.0074             |                         | 0.0000               |                            | 0.0000                  | 0.007                               |         |
| 28                | 430.70                 | 1.280                             | 0.000                                 | 3                     | 0.0074             |                         | 0.0000               |                            | 0.0000                  | 0.007                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.067</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.067</b>                        |         |
| 29                | 430.70                 | 1.280                             | 0.000                                 | 3                     | 0.0074             |                         | 0.0000               |                            | 0.0000                  | 0.007                               |         |
| 30                | 430.70                 | 1.280                             | 0.000                                 | 3                     | 0.0074             |                         | 0.0000               |                            | 0.0000                  | 0.007                               |         |
| <b>05-01-1992</b> | 430.70                 | 1.280                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 432.00                 | 1.576                             | 0.296                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.296                               |         |
| 3                 | 433.00                 | 1.804                             | 0.228                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.228                               |         |
| 4                 | 435.00                 | 2.267                             | 0.463                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.463                               |         |
| 5                 | 436.50                 | 2.615                             | 0.348                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.348                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>1.335</b>                          |                       | <b>0.015</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.350</b>                        |         |
| 6                 | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8                 | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9                 | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10                | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11                | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12                | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 13                | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14                | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15                | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16                | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17                | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18                | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19                | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 20                | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21                | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22                | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23                | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24                | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26                | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 27                | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28                | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29                | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30                | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31                | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>06-01-1992</b> | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 3                 | 436.50                 | 2.615                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4                 | 436.70                 | 2.662                             | 0.047                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.047                               |         |
| 5                 | 436.70                 | 2.662                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6                 | 436.70                 | 2.662                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 | 436.70                 | 2.662                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8                 | 436.70                 | 2.662                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9                 | 436.70                 | 2.662                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.047</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.047</b>                        |         |
| 10                | 438.50                 | 3.063                             | 0.401                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.401                               |         |
| 11                | 438.50                 | 3.063                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12                | 438.50                 | 3.063                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13                | 438.50                 | 3.063                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14                | 438.80                 | 3.157                             | 0.094                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.094                               |         |
| 15                | 438.80                 | 3.157                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 16                | 438.80                 | 3.157                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.495</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.495</b>                        |         |
| 17                | 440.00                 | 3.443                             | 0.286                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.286                               |         |
| 18                | 440.00                 | 3.443                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19                | 440.00                 | 3.443                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20                | 440.20                 | 3.493                             | 0.049                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.049                               |         |
| 21                | 440.20                 | 3.493                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22                | 441.50                 | 3.814                             | 0.321                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.321                               |         |
| 23                | 442.80                 | 4.135                             | 0.321                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.321                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.978</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.978</b>                        |         |
| 24                | 444.00                 | 4.428                             | 0.293                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.293                               |         |
| 25                | 444.50                 | 4.549                             | 0.122                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.122                               |         |
| 26                | 444.50                 | 4.549                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27                | 444.50                 | 4.549                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28                | 445.00                 | 4.671                             | 0.122                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.122                               |         |
| 29                | 447.00                 | 5.161                             | 0.490                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.490                               |         |
| 30                | 447.00                 | 5.161                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>1.026</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.026</b>                        |         |
| <b>07-01-1992</b> | 449.00                 | 5.656                             | 0.495                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.495                               |         |
| 2                 | 450.00                 | 5.917                             | 0.261                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.261                               |         |
| 3                 | 450.50                 | 6.055                             | 0.138                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.138                               |         |
| 4                 | 450.50                 | 6.055                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5                 | 451.50                 | 6.330                             | 0.275                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.312                               |         |
| 6                 | 452.00                 | 6.467                             | 0.138                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.175                               |         |
| 7                 | 453.00                 | 6.721                             | 0.253                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.290                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>1.559</b>                          |                       | <b>0.000</b>       |                         | <b>0.111</b>         |                            | <b>0.000</b>            | <b>1.670</b>                        |         |
| 8                 | 454.00                 | 7.087                             | 0.366                                 | 15                    | 0.0370             |                         | 0.0000               |                            | 0.0000                  | 0.403                               |         |
| 9                 | 455.00                 | 7.419                             | 0.333                                 | 15                    | 0.0370             |                         | 0.0000               |                            | 0.0000                  | 0.370                               |         |
| 10                | 456.00                 | 7.752                             | 0.333                                 | 15                    | 0.0370             |                         | 0.0000               |                            | 0.0000                  | 0.370                               |         |
| 11                | 463.00                 | 10.933                            | 3.181                                 | 15                    | 0.0370             |                         | 0.0000               |                            | 0.0000                  | 3.218                               |         |



| Date              | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 12                | 471.00                 | 16.260                            | 5.327                                 | 15                    | 0.0370             |                         | 0.0000               |                            | 0.0000                  | 5.364                               |         |
| 13                | 474.00                 | 18.869                            | 2.609                                 | 15                    | 0.0370             |                         | 0.0000               |                            | 0.0000                  | 2.646                               |         |
| 14                | 475.00                 | 19.816                            | 0.947                                 | 15                    | 0.0370             |                         | 0.0000               |                            | 0.0000                  | 0.984                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>13.095</b>                         |                       | <b>0.259</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>13.355</b>                       |         |
| 15                | 475.50                 | 20.290                            | 0.474                                 | 15                    | 0.0370             |                         | 0.0000               |                            | 0.0000                  | 0.511                               |         |
| 16                | 477.00                 | 21.852                            | 1.562                                 | 15                    | 0.0370             |                         | 0.0000               |                            | 0.0000                  | 1.599                               |         |
| 17                | 477.50                 | 22.380                            | 0.528                                 | 15                    | 0.0370             |                         | 0.0000               |                            | 0.0000                  | 0.565                               |         |
| 18                | 479.00                 | 23.963                            | 1.584                                 | 15                    | 0.0370             |                         | 0.0000               |                            | 0.0000                  | 1.621                               |         |
| 19                | 479.50                 | 24.566                            | 0.602                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.849                               |         |
| 20                | 480.50                 | 25.771                            | 1.205                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 1.452                               |         |
| 21                | 484.00                 | 30.260                            | 4.489                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 4.736                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>10.444</b>                         |                       | <b>0.888</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>11.332</b>                       |         |
| 22                | 488.00                 | 36.132                            | 5.872                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 6.119                               |         |
| 23                | 489.00                 | 37.687                            | 1.555                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 1.802                               |         |
| 24                | 489.50                 | 38.547                            | 0.860                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 1.107                               |         |
| 25                | 490.00                 | 39.407                            | 0.860                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 1.107                               |         |
| 26                | 490.30                 | 39.923                            | 0.516                                 | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 2.120                               |         |
| 27                | 490.10                 | 39.579                            | -0.344                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.026                               |         |
| 28                | 490.20                 | 39.751                            | 0.172                                 | 150                   | 0.3702             | 100                     | 0.2468               |                            | 0.0000                  | 0.789                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>9.491</b>                          |                       | <b>2.098</b>       |                         | <b>1.481</b>         |                            | <b>0.000</b>            | <b>13.070</b>                       |         |
| 29                | 491.00                 | 41.127                            | 1.376                                 | 180                   | 0.4442             | 100                     | 0.2468               |                            | 0.0000                  | 2.067                               |         |
| 30                | 491.60                 | 42.159                            | 1.032                                 | 150                   | 0.3702             | 100                     | 0.2468               |                            | 0.0000                  | 1.649                               |         |
| 31                | 491.50                 | 41.987                            | -0.172                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>08-01-1992</b> | 492.40                 | 43.585                            | 1.599                                 | 175                   | 0.4319             | 900                     | 2.2211               |                            | 0.0000                  | 4.252                               |         |
| 2                 | 492.10                 | 43.019                            | -0.567                                | 175                   | 0.4319             | 900                     | 2.2211               |                            | 0.0000                  | 2.086                               |         |
| 3                 | 492.50                 | 43.783                            | 0.764                                 | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 1.196                               |         |
| 4                 | 492.80                 | 44.375                            | 0.592                                 | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 1.024                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>4.624</b>                          |                       | <b>2.542</b>       |                         | <b>4.936</b>         |                            | <b>0.000</b>            | <b>12.274</b>                       |         |
| 5                 | 493.00                 | 44.770                            | 0.395                                 | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.827                               |         |
| 6                 | 493.20                 | 45.165                            | 0.395                                 | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.827                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 7                 | 498.00                 | 55.020                            | 9.855                                 | 175                   | 0.4319             | 400                     | 0.9872               |                            | 0.0000                  | 11.274                              |         |
| 8                 | 499.80                 | 62.844                            | 7.824                                 | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 8.256                               |         |
| 9                 | 500.10                 | 63.997                            | 1.153                                 | 175                   | 0.4319             |                         | 0.0000               | 64.3                       | 0.1587                  | 1.743                               |         |
| 10                | 500.20                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 173                        | 0.4269                  | 0.859                               |         |
| 11                | 500.30                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 328                        | 0.8095                  | 1.241                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>19.622</b>                         |                       | <b>3.023</b>       |                         | <b>0.987</b>         |                            | <b>1.395</b>            | <b>25.027</b>                       |         |
| 12                | 500.30                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 328                        | 0.8095                  | 1.241                               |         |
| 13                | 500.20                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 173                        | 0.4269                  | 0.859                               |         |
| 14                | 500.10                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.591                               |         |
| 15                | 500.10                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.591                               |         |
| 16                | 499.70                 | 62.268                            | -1.729                                | 175                   | 0.4319             | 800                     | 1.9743               |                            | 0.0000                  | 0.677                               |         |
| 17                | 499.00                 | 58.233                            | -4.035                                | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 0.000                               |         |
| 18                | 498.10                 | 55.232                            | -3.001                                | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-8.765</b>                         |                       | <b>3.023</b>       |                         | <b>6.910</b>         |                            | <b>1.554</b>            | <b>3.958</b>                        |         |
| 19                | 497.30                 | 53.536                            | -1.696                                | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 1.204                               |         |
| 20                | 497.00                 | 52.900                            | -0.636                                | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 2.264                               |         |
| 21                | 496.50                 | 51.628                            | -1.272                                | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 1.628                               |         |
| 22                | 495.90                 | 50.568                            | -1.060                                | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 1.840                               |         |
| 23                | 495.10                 | 48.915                            | -1.652                                | 150                   | 0.3702             | 100                     | 0.2468               |                            | 0.0000                  | 0.000                               |         |
| 24                | 494.40                 | 47.534                            | -1.382                                | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 1.518                               |         |
| 25                | 493.70                 | 46.152                            | -1.382                                | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 1.518                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-9.080</b>                         |                       | <b>2.961</b>       |                         | <b>15.054</b>        |                            | <b>0.000</b>            | <b>9.971</b>                        |         |
| 26                | 495.10                 | 48.915                            | 2.764                                 | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 5.664                               |         |
| 27                | 499.00                 | 58.233                            | 9.318                                 | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 12.218                              |         |
| 28                | 499.70                 | 62.268                            | 4.035                                 | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 6.934                               |         |
| 29                | 500.10                 | 63.997                            | 1.729                                 | 175                   | 0.4319             | 1000                    | 2.4679               | 64.3                       | 0.1587                  | 4.788                               |         |
| 30                | 499.90                 | 62.844                            | -1.153                                | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 1.747                               |         |
| 31                | 500.10                 | 63.997                            | 1.153                                 | 175                   | 0.4319             |                         | 0.0000               | 64.3                       | 0.1587                  | 1.743                               |         |
| <b>09-01-1992</b> | 500.10                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.591                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>17.845</b>                         |                       | <b>3.023</b>       |                         | <b>12.339</b>        |                            | <b>0.476</b>            | <b>33.684</b>                       |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 2            | 500.10                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.591                               |         |
| 3            | 500.10                 | 63.997                            | 0.000                                 | 191                   | 0.4714             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.630                               |         |
| 4            | 500.00                 | 63.997                            | 0.000                                 | 191                   | 0.4714             |                         | 0.0000               |                            | 0.0000                  | 0.471                               |         |
| 5            | 500.00                 | 63.997                            | 0.000                                 | 191                   | 0.4714             |                         | 0.0000               |                            | 0.0000                  | 0.471                               |         |
| 6            | 499.90                 | 62.844                            | -1.153                                | 191                   | 0.4714             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7            | 499.80                 | 62.844                            | 0.000                                 | 191                   | 0.4714             |                         | 0.0000               |                            | 0.0000                  | 0.471                               |         |
| 8            | 499.10                 | 58.810                            | -4.035                                | 175                   | 0.4319             | 800                     | 1.9743               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-5.187</b>                         |                       | <b>3.221</b>       |                         | <b>1.974</b>         |                            | <b>0.317</b>            | <b>2.635</b>                        |         |
| 9            | 498.50                 | 56.080                            | -2.730                                | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 0.170                               |         |
| 10           | 497.50                 | 53.960                            | -2.120                                | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 0.780                               |         |
| 11           | 496.60                 | 52.052                            | -1.908                                | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 0.992                               |         |
| 12           | 495.40                 | 49.310                            | -2.742                                | 200                   | 0.4936             | 1250                    | 3.0849               |                            | 0.0000                  | 0.837                               |         |
| 13           | 494.10                 | 46.941                            | -2.369                                | 200                   | 0.4936             | 1250                    | 3.0849               |                            | 0.0000                  | 1.210                               |         |
| 14           | 492.60                 | 43.980                            | -2.961                                | 225                   | 0.5553             | 1350                    | 3.3317               |                            | 0.0000                  | 0.926                               |         |
| 15           | 491.00                 | 41.127                            | -2.853                                | 225                   | 0.5553             | 1350                    | 3.3317               |                            | 0.0000                  | 1.034                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-17.683</b>                        |                       | <b>3.393</b>       |                         | <b>20.237</b>        |                            | <b>0.000</b>            | <b>5.947</b>                        |         |
| 16           | 489.30                 | 38.203                            | -2.924                                | 225                   | 0.5553             | 1350                    | 3.3317               |                            | 0.0000                  | 0.963                               |         |
| 17           | 487.50                 | 35.210                            | -2.993                                | 225                   | 0.5553             | 1350                    | 3.3317               |                            | 0.0000                  | 0.894                               |         |
| 18           | 485.70                 | 32.598                            | -2.612                                | 225                   | 0.5553             | 1350                    | 3.3317               |                            | 0.0000                  | 1.274                               |         |
| 19           | 483.70                 | 29.850                            | -2.747                                | 225                   | 0.5553             | 1350                    | 3.3317               |                            | 0.0000                  | 1.140                               |         |
| 20           | 481.70                 | 27.216                            | -2.634                                | 225                   | 0.5553             | 1350                    | 3.3317               |                            | 0.0000                  | 1.253                               |         |
| 21           | 479.50                 | 24.566                            | -2.651                                | 225                   | 0.5553             | 1350                    | 3.3317               |                            | 0.0000                  | 1.236                               |         |
| 22           | 477.00                 | 21.852                            | -2.714                                | 225                   | 0.5553             | 1350                    | 3.3317               |                            | 0.0000                  | 1.173                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-19.275</b>                        |                       | <b>3.887</b>       |                         | <b>23.322</b>        |                            | <b>0.000</b>            | <b>7.933</b>                        |         |
| 23           | 474.50                 | 19.343                            | -2.509                                | 225                   | 0.5553             | 1350                    | 3.3317               |                            | 0.0000                  | 1.378                               |         |
| 24           | 471.70                 | 16.815                            | -2.528                                | 225                   | 0.5553             | 1350                    | 3.3317               |                            | 0.0000                  | 1.359                               |         |
| 25           | 468.10                 | 14.089                            | -2.726                                | 225                   | 0.5553             | 1350                    | 3.3317               |                            | 0.0000                  | 1.161                               |         |
| 26           | 464.60                 | 11.852                            | -2.237                                | 225                   | 0.5553             | 1350                    | 3.3317               |                            | 0.0000                  | 1.650                               |         |
| 27           | 464.60                 | 11.852                            | 0.000                                 | 225                   | 0.5553             | 1350                    | 3.3317               |                            | 0.0000                  | 3.887                               |         |
| 28           | 480.50                 | 25.771                            | 13.919                                |                       | 0.0000             | 25                      | 0.0617               |                            | 0.0000                  | 13.981                              |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 29                | 482.70                 | 28.485                            | 2.715                                 |                       | 0.0000             | 25                      | 0.0617               |                            | 0.0000                  | 2.776                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>6.634</b>                          |                       | <b>2.776</b>       |                         | <b>16.782</b>        |                            | <b>0.000</b>            | <b>26.192</b>                       |         |
| 30                | 483.30                 | 29.304                            | 0.819                                 |                       | 0.0000             | 25                      | 0.0617               |                            | 0.0000                  | 0.881                               |         |
| <b>10-01-1992</b> | 483.70                 | 29.850                            | 0.546                                 |                       | 0.0000             | 25                      | 0.0617               |                            | 0.0000                  | 0.608                               |         |
| 2                 | 484.00                 | 30.260                            | 0.410                                 |                       | 0.0000             | 25                      | 0.0617               |                            | 0.0000                  | 0.471                               |         |
| 3                 | 484.20                 | 30.396                            | 0.137                                 |                       | 0.0000             | 25                      | 0.0617               |                            | 0.0000                  | 0.198                               |         |
| 4                 | 484.20                 | 30.396                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               |                            | 0.0000                  | 0.494                               |         |
| 5                 | 484.20                 | 30.396                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               |                            | 0.0000                  | 0.494                               |         |
| 6                 | 484.00                 | 30.260                            | -0.137                                |                       | 0.0000             | 200                     | 0.4936               |                            | 0.0000                  | 0.357                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>1.775</b>                          |                       | <b>0.000</b>       |                         | <b>1.728</b>         |                            | <b>0.000</b>            | <b>3.502</b>                        |         |
| 7                 | 483.70                 | 29.850                            | -0.410                                |                       | 0.0000             | 400                     | 0.9872               |                            | 0.0000                  | 0.578                               |         |
| 8                 | 483.00                 | 28.895                            | -0.956                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 1.512                               |         |
| 9                 | 481.90                 | 27.457                            | -1.437                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 1.030                               |         |
| 10                | 480.50                 | 25.771                            | -1.687                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.275                               |         |
| 11                | 478.80                 | 23.752                            | -2.018                                | 200                   | 0.4936             | 1050                    | 2.5913               |                            | 0.0000                  | 1.067                               |         |
| 12                | 477.00                 | 21.852                            | -1.901                                | 200                   | 0.4936             | 1050                    | 2.5913               |                            | 0.0000                  | 1.184                               |         |
| 13                | 475.00                 | 19.816                            | -2.036                                | 225                   | 0.5553             | 950                     | 2.3445               |                            | 0.0000                  | 0.864                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-10.444</b>                        |                       | <b>3.023</b>       |                         | <b>14.931</b>        |                            | <b>0.000</b>            | <b>7.510</b>                        |         |
| 14                | 472.90                 | 17.827                            | -1.989                                | 225                   | 0.5553             | 1050                    | 2.5913               |                            | 0.0000                  | 1.158                               |         |
| 15                | 470.60                 | 15.943                            | -1.884                                | 225                   | 0.5553             | 1050                    | 2.5913               |                            | 0.0000                  | 1.262                               |         |
| 16                | 468.40                 | 14.292                            | -1.651                                | 225                   | 0.5553             | 900                     | 2.2211               |                            | 0.0000                  | 1.125                               |         |
| 17                | 466.10                 | 12.734                            | -1.558                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 0.910                               |         |
| 18                | 464.20                 | 11.622                            | -1.112                                | 100                   | 0.2468             | 600                     | 1.4807               |                            | 0.0000                  | 0.616                               |         |
| 19                | 462.70                 | 10.760                            | -0.861                                | 100                   | 0.2468             | 600                     | 1.4807               |                            | 0.0000                  | 0.866                               |         |
| 20                | 461.30                 | 10.076                            | -0.684                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.549                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-9.740</b>                         |                       | <b>2.900</b>       |                         | <b>13.327</b>        |                            | <b>0.000</b>            | <b>6.486</b>                        |         |
| 21                | 460.00                 | 9.449                             | -0.627                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.607                               |         |
| 22                | 460.00                 | 9.449                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23                | 460.00                 | 9.449                             | 0.000                                 | 30                    | 0.0740             |                         | 0.0000               |                            | 0.0000                  | 0.074                               |         |
| 24                | 460.00                 | 9.449                             | 0.000                                 | 30                    | 0.0740             |                         | 0.0000               |                            | 0.0000                  | 0.074                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 25                | 460.00                 | 9.449                             | 0.000                                 | 30                    | 0.0740             |                         | 0.0000               |                            | 0.0000                  | 0.074                               |         |
| 26                | 460.10                 | 9.497                             | 0.048                                 | 30                    | 0.0740             |                         | 0.0000               |                            | 0.0000                  | 0.122                               |         |
| 27                | 460.10                 | 9.497                             | 0.000                                 | 30                    | 0.0740             |                         | 0.0000               |                            | 0.0000                  | 0.074                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.579</b>                         |                       | <b>0.617</b>       |                         | <b>0.987</b>         |                            | <b>0.000</b>            | <b>1.025</b>                        |         |
| 28                | 460.10                 | 9.497                             | 0.000                                 | 30                    | 0.0740             |                         | 0.0000               |                            | 0.0000                  | 0.074                               |         |
| 29                | 460.10                 | 9.497                             | 0.000                                 | 30                    | 0.0740             |                         | 0.0000               |                            | 0.0000                  | 0.074                               |         |
| 30                | 460.10                 | 9.497                             | 0.000                                 | 30                    | 0.0740             |                         | 0.0000               |                            | 0.0000                  | 0.074                               |         |
| 31                | 460.10                 | 9.497                             | 0.000                                 | 30                    | 0.0740             |                         | 0.0000               |                            | 0.0000                  | 0.074                               |         |
| <b>11-01-1992</b> | 460.10                 | 9.497                             | 0.000                                 | 30                    | 0.0740             |                         | 0.0000               |                            | 0.0000                  | 0.074                               |         |
| 2                 | 460.10                 | 9.497                             | 0.000                                 | 30                    | 0.0740             |                         | 0.0000               |                            | 0.0000                  | 0.074                               |         |
| 3                 | 460.10                 | 9.497                             | 0.000                                 | 30                    | 0.0740             |                         | 0.0000               |                            | 0.0000                  | 0.074                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.518</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.518</b>                        |         |
| 4                 | 460.10                 | 9.497                             | 0.000                                 | 30                    | 0.0740             |                         | 0.0000               |                            | 0.0000                  | 0.074                               |         |
| 5                 | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 6                 | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 7                 | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 8                 | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 9                 | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 10                | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.074</b>       |                         | <b>0.444</b>         |                            | <b>0.000</b>            | <b>0.518</b>                        |         |
| 11                | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 12                | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 13                | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 14                | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 15                | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 16                | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 17                | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.518</b>         |                            | <b>0.000</b>            | <b>0.518</b>                        |         |
| 18                | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 19                | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 20                | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 21                | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 22                | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 23                | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 24                | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.518</b>         |                            | <b>0.000</b>            | <b>0.518</b>                        |         |
| 25                | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 26                | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 27                | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 28                | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 29                | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 30                | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| <b>12-01-1992</b> | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.518</b>         |                            | <b>0.000</b>            | <b>0.518</b>                        |         |
| 2                 | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 3                 | 460.00                 | 9.449                             | -0.048                                |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.026                               |         |
| 4                 | 460.00                 | 9.449                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 5                 | 460.00                 | 9.449                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 6                 | 460.00                 | 9.449                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 7                 | 460.00                 | 9.449                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 8                 | 460.00                 | 9.449                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.048</b>                         |                       | <b>0.000</b>       |                         | <b>0.518</b>         |                            | <b>0.000</b>            | <b>0.470</b>                        |         |
| 9                 | 460.00                 | 9.449                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 10                | 460.00                 | 9.449                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 11                | 459.90                 | 9.401                             | -0.048                                |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.026                               |         |
| 12                | 459.90                 | 9.401                             | 0.000                                 |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.074                               |         |
| 13                | 459.80                 | 9.304                             | -0.096                                |                       | 0.0000             | 30                      | 0.0740               |                            | 0.0000                  | 0.000                               |         |
| 14                | 459.80                 | 9.304                             | 0.000                                 | 30                    | 0.0740             |                         | 0.0000               |                            | 0.0000                  | 0.074                               |         |
| 15                | 459.80                 | 9.304                             | 0.000                                 | 30                    | 0.0740             |                         | 0.0000               |                            | 0.0000                  | 0.074                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.145</b>                         |                       | <b>0.148</b>       |                         | <b>0.370</b>         |                            | <b>0.000</b>            | <b>0.396</b>                        |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 16                | 459.70                 | 9.304                             | 0.000                                 | 30                    | 0.0740             |                         | 0.0000               |                            | 0.0000                  | 0.074                               |         |
| 17                | 459.70                 | 9.304                             | 0.000                                 | 30                    | 0.0740             |                         | 0.0000               |                            | 0.0000                  | 0.074                               |         |
| 18                | 459.60                 | 9.256                             | -0.048                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19                | 459.50                 | 9.208                             | -0.048                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20                | 459.40                 | 9.160                             | -0.048                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21                | 459.30                 | 9.111                             | -0.048                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22                | 459.20                 | 9.070                             | -0.041                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.234</b>                         |                       | <b>0.148</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.148</b>                        |         |
| 23                | 459.10                 | 9.029                             | -0.041                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24                | 459.00                 | 8.987                             | -0.041                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.205                               |         |
| 25                | 458.80                 | 8.904                             | -0.083                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.287                               |         |
| 26                | 458.60                 | 8.821                             | -0.083                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.287                               |         |
| 27                | 458.10                 | 8.614                             | -0.207                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.163                               |         |
| 28                | 457.90                 | 8.531                             | -0.083                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.287                               |         |
| 29                | 457.60                 | 8.407                             | -0.124                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.246                               |         |
| 30                | 457.30                 | 8.283                             | -0.124                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.246                               |         |
| 31                | 457.10                 | 8.200                             | -0.083                                | 200                   | 0.4936             | 300                     | 0.7404               |                            | 0.0000                  | 1.151                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.870</b>                         |                       | <b>2.961</b>       |                         | <b>0.740</b>         |                            | <b>0.000</b>            | <b>2.873</b>                        |         |
| <b>01-01-1993</b> | 455.50                 | 7.586                             | -0.614                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 455.50                 | 7.586                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 | 455.50                 | 7.586                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4                 | 455.50                 | 7.586                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5                 | 455.50                 | 7.586                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6                 | 455.10                 | 7.453                             | -0.133                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 | 454.80                 | 7.353                             | -0.100                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.847</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 8                 | 454.80                 | 7.353                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9                 | 454.70                 | 7.320                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10                | 454.60                 | 7.286                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11                | 454.60                 | 7.286                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 12                | 454.40                 | 7.220                             | -0.067                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13                | 454.40                 | 7.220                             | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.247                               |         |
| 14                | 454.20                 | 7.153                             | -0.067                                |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.180                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.200</b>                         |                       | <b>0.000</b>       |                         | <b>0.494</b>         |                            | <b>0.000</b>            | <b>0.427</b>                        |         |
| 15                | 454.00                 | 7.087                             | -0.067                                |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.180                               |         |
| 16                | 453.80                 | 7.020                             | -0.067                                |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.180                               |         |
| 17                | 453.60                 | 6.954                             | -0.067                                |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.180                               |         |
| 18                | 453.50                 | 6.920                             | -0.033                                |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.214                               |         |
| 19                | 453.20                 | 6.820                             | -0.100                                |                       | 0.0000             | 200                     | 0.4936               |                            | 0.0000                  | 0.394                               |         |
| 20                | 451.90                 | 6.412                             | -0.408                                |                       | 0.0000             | 200                     | 0.4936               |                            | 0.0000                  | 0.085                               |         |
| 21                | 451.30                 | 6.275                             | -0.138                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.603                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.878</b>                         |                       | <b>0.000</b>       |                         | <b>2.715</b>         |                            | <b>0.000</b>            | <b>1.836</b>                        |         |
| 22                | 449.20                 | 5.706                             | -0.569                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.171                               |         |
| 23                | 448.30                 | 5.483                             | -0.223                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.518                               |         |
| 24                | 447.20                 | 5.211                             | -0.272                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.468                               |         |
| 25                | 446.10                 | 4.939                             | -0.272                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.469                               |         |
| 26                | 445.00                 | 4.671                             | -0.268                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.473                               |         |
| 27                | 444.20                 | 4.476                             | -0.195                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.546                               |         |
| 28                | 442.70                 | 4.110                             | -0.366                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.374                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-2.164</b>                         |                       | <b>0.000</b>       |                         | <b>5.183</b>         |                            | <b>0.000</b>            | <b>3.018</b>                        |         |
| 29                | 440.90                 | 3.666                             | -0.445                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.296                               |         |
| 30                | 439.40                 | 3.298                             | -0.367                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.373                               |         |
| 31                | 432.00                 | 1.576                             | -1.723                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.000                               |         |
| <b>02-01-1993</b> | 435.90                 | 2.475                             | 0.900                                 | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 2.010                               |         |
| 2                 | 433.90                 | 2.012                             | -0.464                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.030                               |         |
| 3                 | 433.00                 | 1.804                             | -0.208                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.285                               |         |
| 4                 | 432.00                 | 1.576                             | -0.228                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.266                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-2.534</b>                         |                       | <b>1.851</b>       |                         | <b>2.961</b>         |                            | <b>0.000</b>            | <b>3.260</b>                        |         |
| 5                 | 430.80                 | 1.302                             | -0.273                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.220                               |         |
| 6                 | 430.20                 | 1.166                             | -0.137                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.110                               |         |



| Date              | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 7                 | 429.60                 | 1.030                             | -0.136                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.111                               |         |
| 8                 | 429.00                 | 0.895                             | -0.134                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.359                               |         |
| 9                 | 428.00                 | 0.671                             | -0.224                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10                | 428.10                 | 0.694                             | 0.022                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.022                               |         |
| 11                | 428.10                 | 0.694                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.882</b>                         |                       | <b>1.481</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.823</b>                        |         |
| 12                | 428.20                 | 0.716                             | 0.022                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.022                               |         |
| 13                | 428.20                 | 0.716                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14                | 428.20                 | 0.716                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15                | 428.30                 | 0.739                             | 0.022                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.022                               |         |
| 16                | 428.40                 | 0.739                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17                | 428.50                 | 0.783                             | 0.045                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.045                               |         |
| 18                | 428.50                 | 0.783                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.090</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.090</b>                        |         |
| 19                | 428.50                 | 0.783                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20                | 428.50                 | 0.783                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21                | 428.50                 | 0.783                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22                | 428.50                 | 0.783                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23                | 428.50                 | 0.783                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24                | 428.50                 | 0.783                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                | 428.50                 | 0.783                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 26                | 428.50                 | 0.783                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27                | 428.50                 | 0.783                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28                | 428.50                 | 0.783                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>03-01-1993</b> | 428.70                 | 0.828                             | 0.045                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.045                               |         |
| 2                 | 428.80                 | 0.851                             | 0.022                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.022                               |         |
| 3                 | 428.90                 | 0.873                             | 0.022                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.022                               |         |
| 4                 | 429.00                 | 0.895                             | 0.022                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.022                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.112</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.112</b>                        |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 5            | 429.00                 | 0.895                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6            | 429.00                 | 0.895                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7            | 429.00                 | 0.895                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8            | 429.00                 | 0.895                             | 0.000                                 |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.740                               |         |
| 9            | 428.00                 | 0.671                             | -0.224                                |                       | 0.0000             | 200                     | 0.4936               |                            | 0.0000                  | 0.270                               |         |
| 10           | 429.00                 | 0.895                             | 0.224                                 |                       | 0.0000             | 200                     | 0.4936               |                            | 0.0000                  | 0.718                               |         |
| 11           | 426.00                 | 0.207                             | -0.689                                |                       | 0.0000             | 250                     | 0.6170               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-0.689</b>                         |                       | <b>0.000</b>       |                         | <b>2.345</b>         |                            | <b>0.000</b>            | <b>1.728</b>                        |         |
| 12           | 425.50                 | 0.077                             | -0.129                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13           | 426.00                 | 0.207                             | 0.129                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.129                               |         |
| 14           | 426.50                 | 0.336                             | 0.129                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.129                               |         |
| 15           | 427.00                 | 0.000                             | -0.336                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-0.207</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.258</b>                        |         |
| 19           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 26           | 430.30                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27           | 443.50                 | 4.306                             | 4.306                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 4.306                               |         |
| 28           | 444.00                 | 4.428                             | 0.122                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.122                               |         |
| 29           | 444.50                 | 4.549                             | 0.122                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.122                               |         |
| 30           | 445.00                 | 4.671                             | 0.122                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.122                               |         |
| 31           | 445.00                 | 4.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date         | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 04-01-1993   | 445.60                 | 4.817                             | 0.146                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.146                               |         |
| <b>TOTAL</b> |                        |                                   | <b>4.817</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>4.817</b>                        |         |
| 2            | 445.60                 | 4.817                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3            | 445.60                 | 4.817                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4            | 445.60                 | 4.817                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5            | 445.60                 | 4.817                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6            | 445.60                 | 4.817                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7            | 445.60                 | 4.817                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8            | 445.60                 | 4.817                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 9            | 445.60                 | 4.817                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10           | 455.70                 | 7.652                             | 2.835                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.835                               |         |
| 11           | 445.70                 | 4.842                             | -2.811                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12           | 435.70                 | 2.429                             | -2.412                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13           | 425.70                 | 0.129                             | -2.300                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14           | 425.70                 | 0.129                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15           | 425.70                 | 0.129                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-4.688</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>2.835</b>                        |         |
| 16           | 425.70                 | 0.129                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17           | 425.70                 | 0.129                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18           | 425.70                 | 0.129                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19           | 425.70                 | 0.129                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20           | 425.70                 | 0.129                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21           | 425.70                 | 0.129                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22           | 425.70                 | 0.129                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 23           | 425.70                 | 0.129                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24           | 425.70                 | 0.129                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25           | 448.00                 | 5.409                             | 5.280                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 5.280                               |         |
| 26           | 448.20                 | 5.458                             | 0.049                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.049                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 27                | 448.20                 | 5.458                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28                | 448.20                 | 5.458                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29                | 448.20                 | 5.458                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>5.329</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>5.329</b>                        |         |
| 30                | 448.20                 | 5.458                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>05-01-1993</b> | 448.20                 | 5.458                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 448.30                 | 5.483                             | 0.025                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.025                               |         |
| 3                 | 448.30                 | 5.483                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4                 | 448.30                 | 5.483                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5                 | 448.30                 | 5.483                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6                 | 448.20                 | 5.458                             | -0.025                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.025</b>                        |         |
| 7                 | 448.20                 | 5.458                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8                 | 448.10                 | 5.433                             | -0.025                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9                 | 448.10                 | 5.433                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10                | 447.90                 | 5.384                             | -0.049                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11                | 447.80                 | 5.359                             | -0.025                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12                | 447.80                 | 5.359                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13                | 447.60                 | 5.310                             | -0.049                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.148</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 14                | 447.50                 | 5.285                             | -0.025                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15                | 447.50                 | 5.285                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16                | 447.40                 | 5.235                             | -0.049                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17                | 447.40                 | 5.235                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18                | 447.20                 | 5.211                             | -0.025                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19                | 447.20                 | 5.211                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20                | 447.20                 | 5.211                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.099</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 21                | 447.70                 | 5.334                             | 0.124                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.124                               |         |
| 22                | 447.70                 | 5.334                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 23                | 447.70                 | 5.334                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24                | 447.70                 | 5.334                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                | 448.00                 | 5.409                             | 0.074                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.074                               |         |
| 26                | 448.00                 | 5.409                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27                | 448.00                 | 5.409                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.198</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.198</b>                        |         |
| 28                | 448.00                 | 5.409                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29                | 448.00                 | 5.409                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30                | 448.00                 | 5.409                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31                | 448.00                 | 5.409                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>06-01-1993</b> | 448.00                 | 5.409                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 448.00                 | 5.409                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 | 448.00                 | 5.409                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 4                 | 448.00                 | 5.409                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5                 | 448.00                 | 5.409                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6                 | 448.00                 | 5.409                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 | 448.00                 | 5.409                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8                 | 447.90                 | 5.384                             | -0.025                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9                 | 447.90                 | 5.384                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10                | 447.90                 | 5.384                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.025</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 11                | 447.80                 | 5.359                             | -0.025                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12                | 447.80                 | 5.359                             | 5.359                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 5.359                               |         |
| 13                | 447.60                 | 5.310                             | -0.049                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14                | 447.60                 | 5.310                             | -0.049                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15                | 447.50                 | 5.285                             | -0.025                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16                | 447.50                 | 5.285                             | -0.025                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17                | 447.50                 | 5.285                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b>      |                        |                                   | <b>5.186</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>5.359</b>                        |         |
| 18                | 453.00                 | 6.721                             | 1.436                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.436                               |         |
| 19                | 453.40                 | 6.887                             | 1.602                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.602                               |         |
| 20                | 453.60                 | 6.954                             | 0.233                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.233                               |         |
| 21                | 453.80                 | 7.020                             | 0.067                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.067                               |         |
| 22                | 454.00                 | 7.087                             | 0.067                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.067                               |         |
| 23                | 454.30                 | 7.186                             | 0.100                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.100                               |         |
| 24                | 454.90                 | 7.386                             | 0.200                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.200                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>3.703</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>3.703</b>                        |         |
| 25                | 457.80                 | 8.490                             | 1.104                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.104                               |         |
| 26                | 463.70                 | 11.335                            | 2.845                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.845                               |         |
| 27                | 467.00                 | 13.343                            | 2.009                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.009                               |         |
| 28                | 470.60                 | 15.943                            | 2.600                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.600                               |         |
| 29                | 474.00                 | 18.869                            | 2.926                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.926                               |         |
| 30                | 475.60                 | 20.384                            | 1.515                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.515                               |         |
| <b>07-01-1993</b> | 476.00                 | 20.796                            | 0.411                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.411                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>13.410</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>13.410</b>                       |         |
| 2                 | 476.30                 | 21.007                            | 0.211                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.211                               |         |
| 3                 | 476.40                 | 21.218                            | 0.211                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.211                               |         |
| 4                 | 476.50                 | 21.324                            | 0.106                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.106                               |         |
| 5                 | 476.60                 | 21.429                            | 0.106                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.106                               |         |
| 6                 | 476.70                 | 21.535                            | 0.106                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.106                               |         |
| 7                 | 476.80                 | 21.641                            | 0.106                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.106                               |         |
| 8                 | 477.10                 | 21.957                            | 0.317                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.317                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>1.161</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.161</b>                        |         |
| 9                 | 477.80                 | 22.696                            | 0.739                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.739                               |         |
| 10                | 478.30                 | 23.224                            | 0.528                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.528                               |         |
| 11                | 479.70                 | 24.686                            | 1.462                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.462                               |         |
| 12                | 480.00                 | 25.168                            | 0.482                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.482                               |         |
| 13                | 480.80                 | 26.012                            | 0.843                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.843                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 14                | 481.10                 | 26.493                            | 0.482                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.482                               |         |
| 15                | 481.10                 | 26.493                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>4.536</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>4.536</b>                        |         |
| 16                | 481.40                 | 26.855                            | 0.361                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.361                               |         |
| 17                | 483.40                 | 29.441                            | 2.586                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.586                               |         |
| 18                | 484.40                 | 30.806                            | 1.365                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.365                               |         |
| 19                | 485.00                 | 31.625                            | 0.819                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.819                               |         |
| 20                | 485.20                 | 31.898                            | 0.273                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.273                               |         |
| 21                | 485.30                 | 31.898                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22                | 485.30                 | 31.898                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>5.404</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>5.404</b>                        |         |
| 23                | 487.20                 | 34.903                            | 3.005                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 3.005                               |         |
| 24                | 488.80                 | 37.361                            | 2.459                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.459                               |         |
| 25                | 489.50                 | 38.547                            | 1.186                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.186                               |         |
| 26                | 490.00                 | 39.407                            | 0.860                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.860                               |         |
| 27                | 490.00                 | 39.407                            | 0.000                                 |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.740                               |         |
| 28                | 489.80                 | 38.891                            | -0.516                                |                       | 0.0000             | 500                     | 1.2339               |                            | 0.0000                  | 0.718                               |         |
| 29                | 489.30                 | 38.203                            | -0.688                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.793                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>6.305</b>                          |                       | <b>0.247</b>       |                         | <b>3.208</b>         |                            | <b>0.000</b>            | <b>9.760</b>                        |         |
| 30                | 488.70                 | 37.054                            | -1.149                                | 130                   | 0.3208             | 1000                    | 2.4679               |                            | 0.0000                  | 1.640                               |         |
| 31                | 487.80                 | 35.825                            | -1.229                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.732                               |         |
| <b>08-01-1993</b> | 486.90                 | 34.442                            | -1.383                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.578                               |         |
| 2                 | 485.70                 | 32.598                            | -1.844                                | 200                   | 0.4936             | 1400                    | 3.4551               |                            | 0.0000                  | 2.105                               |         |
| 3                 | 484.10                 | 30.396                            | -2.201                                | 200                   | 0.4936             | 1400                    | 3.4551               |                            | 0.0000                  | 1.747                               |         |
| 4                 | 482.90                 | 28.758                            | -1.638                                | 200                   | 0.4936             | 1400                    | 3.4551               |                            | 0.0000                  | 2.311                               |         |
| 5                 | 481.70                 | 27.216                            | -1.542                                | 200                   | 0.4936             | 1400                    | 3.4551               |                            | 0.0000                  | 2.407                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-10.987</b>                        |                       | <b>3.282</b>       |                         | <b>21.224</b>        |                            | <b>0.000</b>            | <b>13.519</b>                       |         |
| 6                 | 480.60                 | 25.891                            | -1.325                                | 232                   | 0.5726             | 1400                    | 3.4551               |                            | 0.0000                  | 2.702                               |         |
| 7                 | 479.00                 | 23.963                            | -1.928                                | 232                   | 0.5726             | 1800                    | 4.4422               |                            | 0.0000                  | 3.087                               |         |
| 8                 | 476.90                 | 21.746                            | -2.217                                | 232                   | 0.5726             | 1800                    | 4.4422               |                            | 0.0000                  | 2.797                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 9                 | 474.80                 | 19.627                            | -2.119                                | 232                   | 0.5726             | 1000                    | 2.4679               |                            | 0.0000                  | 0.921                               |         |
| 10                | 474.00                 | 18.869                            | -0.758                                | 232                   | 0.5726             | 1000                    | 2.4679               |                            | 0.0000                  | 2.283                               |         |
| 11                | 472.70                 | 17.638                            | -1.231                                | 232                   | 0.5726             | 1000                    | 2.4679               |                            | 0.0000                  | 1.809                               |         |
| 12                | 497.50                 | 53.960                            | 36.322                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 36.569                              |         |
| <b>TOTAL</b>      |                        |                                   | <b>26.744</b>                         |                       | <b>3.682</b>       |                         | <b>19.743</b>        |                            | <b>0.000</b>            | <b>50.169</b>                       |         |
| 13                | 500.50                 | 63.997                            | 10.037                                | 100                   | 0.2468             |                         | 0.0000               | 375                        | 0.9255                  | 11.209                              |         |
| 14                | 500.80                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 600                        | 1.4807                  | 1.728                               |         |
| 15                | 500.90                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 675                        | 1.6658                  | 1.913                               |         |
| 16                | 500.50                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 375                        | 0.9255                  | 1.172                               |         |
| 17                | 500.30                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 225                        | 0.5553                  | 0.802                               |         |
| 18                | 500.20                 | 63.997                            | 0.000                                 | 160                   | 0.3949             |                         | 0.0000               | 150                        | 0.3702                  | 0.765                               |         |
| 19                | 500.10                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 475                        | 1.1723                  | 1.666                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>10.037</b>                         |                       | <b>2.122</b>       |                         | <b>0.000</b>         |                            | <b>7.095</b>            | <b>19.255</b>                       |         |
| 20                | 500.50                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 500                     | 1.2339               | 375                        | 0.9255                  | 2.653                               |         |
| 21                | 500.60                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 125                     | 0.3085               | 450                        | 1.1106                  | 1.913                               |         |
| 22                | 502.00                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 1000                       | 2.4679                  | 2.838                               |         |
| 23                | 500.90                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 675                        | 1.6658                  | 2.036                               |         |
| 24                | 502.20                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 1300                       | 3.2083                  | 3.578                               |         |
| 25                | 501.50                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 919                        | 2.2680                  | 2.515                               |         |
| 26                | 500.90                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 794                        | 1.9595                  | 2.206                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>2.591</b>       |                         | <b>1.542</b>         |                            | <b>13.606</b>           | <b>17.739</b>                       |         |
| 27                | 500.50                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 395                        | 0.9748                  | 1.222                               |         |
| 28                | 500.70                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 556                        | 1.3722                  | 1.619                               |         |
| 29                | 500.80                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 635                        | 1.5671                  | 1.814                               |         |
| 30                | 501.00                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 794                        | 1.9595                  | 2.206                               |         |
| 31                | 501.50                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 919                        | 2.2680                  | 2.515                               |         |
| <b>09-01-1993</b> | 501.90                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 1019.5                     | 2.5160                  | 2.763                               |         |
| 2                 | 501.90                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 1019.5                     | 2.5160                  | 2.763                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>1.728</b>       |                         | <b>0.000</b>         |                            | <b>13.174</b>           | <b>14.901</b>                       |         |
| 3                 | 501.50                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 919.5                      | 2.2692                  | 2.269                               |         |



| Date         | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 4            | 500.90                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 715                        | 1.7645                  | 1.765                               |         |
| 5            | 503.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 2694.5                     | 6.6497                  | 6.650                               |         |
| 6            | 501.90                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1019.5                     | 2.5160                  | 2.516                               |         |
| 7            | 501.00                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 794.5                      | 1.9607                  | 2.084                               |         |
| 8            | 501.20                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 844.5                      | 2.0841                  | 2.208                               |         |
| 9            | 501.10                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 819.5                      | 2.0224                  | 2.146                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.370</b>       |                         | <b>0.000</b>         |                            | <b>19.267</b>           | <b>19.637</b>                       |         |
| 10           | 500.80                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 635                        | 1.5671                  | 1.691                               |         |
| 11           | 500.50                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 397                        | 0.9798                  | 1.103                               |         |
| 12           | 500.30                 | 63.997                            | 0.000                                 | 125                   | 0.3085             |                         | 0.0000               | 328                        | 0.8095                  | 1.118                               |         |
| 13           | 500.50                 | 63.997                            | 0.000                                 | 125                   | 0.3085             |                         | 0.0000               | 694                        | 1.7127                  | 2.021                               |         |
| 14           | 501.30                 | 63.997                            | 0.000                                 | 125                   | 0.3085             |                         | 0.0000               | 2852                       | 7.0384                  | 7.347                               |         |
| 15           | 501.50                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 3577                       | 8.8277                  | 8.951                               |         |
| 16           | 501.30                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 2852                       | 7.0384                  | 7.162                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>1.419</b>       |                         | <b>0.000</b>         |                            | <b>27.974</b>           | <b>29.393</b>                       |         |
| 17           | 500.80                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 1388                       | 3.4254                  | 3.549                               |         |
| 18           | 500.50                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 694                        | 1.7127                  | 1.836                               |         |
| 19           | 500.40                 | 63.997                            | 0.000                                 | 125                   | 0.3085             |                         | 0.0000               | 498                        | 1.2290                  | 1.537                               |         |
| 20           | 500.30                 | 63.997                            | 0.000                                 | 125                   | 0.3085             |                         | 0.0000               | 328                        | 0.8095                  | 1.118                               |         |
| 21           | 500.20                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 173                        | 0.4269                  | 0.921                               |         |
| 22           | 500.10                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.652                               |         |
| 23           | 500.50                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 694                        | 1.7127                  | 2.206                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>2.345</b>       |                         | <b>0.000</b>         |                            | <b>9.475</b>            | <b>11.819</b>                       |         |
| 24           | 500.50                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 625                     | 1.5424               | 694                        | 1.7127                  | 3.749                               |         |
| 25           | 500.90                 | 63.997                            | 0.000                                 | 150                   | 0.3702             | 625                     | 1.5424               | 1646                       | 4.0622                  | 5.975                               |         |
| 26           | 500.90                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 1646                       | 4.0622                  | 4.432                               |         |
| 27           | 500.90                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 1646                       | 4.0622                  | 4.432                               |         |
| 28           | 501.90                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 5050                       | 12.4629                 | 12.833                              |         |
| 29           | 501.20                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 2544                       | 6.2783                  | 6.649                               |         |
| 30           | 500.90                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 1646                       | 4.0622                  | 4.432                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>2.715</b>       |                         | <b>3.085</b>         |                            | <b>36.703</b>           | <b>42.502</b>                       |         |
| 10-01-1993   | 501.40                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 3200                       | 7.8973                  | 8.267                               |         |
| 2            | 500.80                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 1388                       | 3.4254                  | 3.796                               |         |
| 3            | 500.40                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 498                        | 1.2290                  | 1.599                               |         |
| 4            | 500.20                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 173                        | 0.4269                  | 0.797                               |         |
| 5            | 500.50                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 694                        | 1.7127                  | 2.206                               |         |
| 6            | 500.40                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 498                        | 1.2290                  | 1.723                               |         |
| 7            | 500.30                 | 63.997                            | 0.000                                 | 232                   | 0.5726             |                         | 0.0000               | 328                        | 0.8095                  | 1.382                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>3.040</b>       |                         | <b>0.000</b>         |                            | <b>16.730</b>           | <b>19.770</b>                       |         |
| 8            | 500.20                 | 63.997                            | 0.000                                 | 232                   | 0.5726             |                         | 0.0000               | 173                        | 0.4269                  | 0.999                               |         |
| 9            | 500.20                 | 63.997                            | 0.000                                 | 232                   | 0.5726             |                         | 0.0000               | 173                        | 0.4269                  | 0.999                               |         |
| 10           | 499.90                 | 62.844                            | -1.153                                | 232                   | 0.5726             | 1100                    | 2.7147               |                            | 0.0000                  | 2.134                               |         |
| 11           | 499.40                 | 60.539                            | -2.305                                | 232                   | 0.5726             | 1100                    | 2.7147               |                            | 0.0000                  | 0.982                               |         |
| 12           | 498.60                 | 56.292                            | -4.247                                | 250                   | 0.6170             | 1600                    | 3.9486               |                            | 0.0000                  | 0.319                               |         |
| 13           | 497.70                 | 54.384                            | -1.908                                | 250                   | 0.6170             | 1600                    | 3.9486               |                            | 0.0000                  | 2.657                               |         |
| 14           | 496.50                 | 51.628                            | -2.756                                | 250                   | 0.6170             | 1100                    | 2.7147               |                            | 0.0000                  | 0.575                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-12.369</b>                        |                       | <b>4.141</b>       |                         | <b>16.041</b>        |                            | <b>0.854</b>            | <b>8.667</b>                        |         |
| 15           | 496.30                 | 51.416                            | -0.212                                | 232                   | 0.5726             | 1100                    | 2.7147               |                            | 0.0000                  | 3.075                               |         |
| 16           | 495.90                 | 50.568                            | -0.848                                | 232                   | 0.5726             | 1100                    | 2.7147               |                            | 0.0000                  | 2.439                               |         |
| 17           | 495.30                 | 49.310                            | -1.257                                | 232                   | 0.5726             | 1100                    | 2.7147               |                            | 0.0000                  | 2.030                               |         |
| 18           | 494.40                 | 47.534                            | -1.777                                | 232                   | 0.5726             | 1300                    | 3.2083               |                            | 0.0000                  | 2.004                               |         |
| 19           | 493.90                 | 46.546                            | -0.987                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20           | 494.30                 | 47.336                            | 0.790                                 |                       | 0.0000             | 60                      | 0.1481               |                            | 0.0000                  | 0.938                               |         |
| 21           | 494.50                 | 47.731                            | 0.395                                 |                       | 0.0000             | 60                      | 0.1481               |                            | 0.0000                  | 0.543                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-3.897</b>                         |                       | <b>2.290</b>       |                         | <b>11.648</b>        |                            | <b>0.000</b>            | <b>11.029</b>                       |         |
| 22           | 494.70                 | 48.126                            | 0.395                                 |                       | 0.0000             | 60                      | 0.1481               |                            | 0.0000                  | 0.543                               |         |
| 23           | 494.90                 | 48.521                            | 0.395                                 |                       | 0.0000             | 60                      | 0.1481               |                            | 0.0000                  | 0.543                               |         |
| 24           | 494.90                 | 48.521                            | 0.000                                 |                       | 0.0000             | 60                      | 0.1481               |                            | 0.0000                  | 0.148                               |         |
| 25           | 495.00                 | 48.718                            | 0.197                                 |                       | 0.0000             | 60                      | 0.1481               |                            | 0.0000                  | 0.345                               |         |
| 26           | 495.00                 | 48.718                            | 0.000                                 |                       | 0.0000             | 60                      | 0.1481               |                            | 0.0000                  | 0.148                               |         |

| Date              | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 27                | 495.10                 | 48.915                            | 0.197                                 |                       | 0.0000             | 60                      | 0.1481               |                            | 0.0000                  | 0.345                               |         |
| 28                | 495.10                 | 48.915                            | 0.000                                 | 60                    | 0.1481             |                         | 0.0000               |                            | 0.0000                  | 0.148                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>1.184</b>                          |                       | <b>0.148</b>       |                         | <b>0.888</b>         |                            | <b>0.000</b>            | <b>2.221</b>                        |         |
| 29                | 495.10                 | 48.915                            | 0.000                                 | 60                    | 0.1481             |                         | 0.0000               |                            | 0.0000                  | 0.148                               |         |
| 30                | 495.20                 | 49.113                            | 0.197                                 | 60                    | 0.1481             |                         | 0.0000               |                            | 0.0000                  | 0.345                               |         |
| 31                | 495.20                 | 49.113                            | 0.000                                 | 60                    | 0.1481             |                         | 0.0000               |                            | 0.0000                  | 0.148                               |         |
| <b>11-01-1993</b> | 495.30                 | 49.310                            | 0.197                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.568                               |         |
| 2                 | 495.30                 | 49.310                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 | 495.40                 | 49.310                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4                 | 495.40                 | 49.310                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.395</b>                          |                       | <b>0.814</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.209</b>                        |         |
| 5                 | 495.50                 | 49.720                            | 0.409                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.409                               |         |
| 6                 | 495.50                 | 49.720                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 | 495.80                 | 50.356                            | 0.636                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.636                               |         |
| 8                 | 496.10                 | 50.992                            | 0.636                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.636                               |         |
| 9                 | 496.30                 | 51.416                            | 0.424                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.424                               |         |
| 10                | 496.40                 | 51.628                            | 0.212                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.212                               |         |
| 11                | 496.40                 | 51.628                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>2.318</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>2.318</b>                        |         |
| 12                | 496.50                 | 51.628                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13                | 496.60                 | 52.052                            | 0.424                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.424                               |         |
| 14                | 496.70                 | 52.264                            | 0.212                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.212                               |         |
| 15                | 496.80                 | 52.476                            | 0.212                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.212                               |         |
| 16                | 496.80                 | 52.476                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17                | 496.80                 | 52.476                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18                | 496.80                 | 52.476                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.848</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.848</b>                        |         |
| 19                | 496.90                 | 52.688                            | 0.212                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.212                               |         |
| 20                | 496.90                 | 52.688                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21                | 496.90                 | 52.688                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 22                | 496.90                 | 52.688                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23                | 496.90                 | 52.688                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24                | 496.90                 | 52.688                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                | 497.00                 | 52.900                            | 0.212                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.212                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.424</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.424</b>                        |         |
| 26                | 497.00                 | 52.900                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27                | 497.00                 | 52.900                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28                | 497.00                 | 52.900                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29                | 497.00                 | 52.900                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30                | 497.00                 | 52.900                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>12-01-1993</b> | 497.10                 | 53.112                            | 0.212                                 | 30                    | 0.0740             |                         | 0.0000               |                            | 0.0000                  | 0.286                               |         |
| 2                 | 497.10                 | 53.112                            | 0.000                                 | 30                    | 0.0740             |                         | 0.0000               |                            | 0.0000                  | 0.074                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.212</b>                          |                       | <b>0.148</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.360</b>                        |         |
| 3                 | 497.10                 | 53.112                            | 0.000                                 | 30                    | 0.0740             |                         | 0.0000               |                            | 0.0000                  | 0.074                               |         |
| 4                 | 497.10                 | 53.112                            | 0.000                                 | 30                    | 0.0740             |                         | 0.0000               |                            | 0.0000                  | 0.074                               |         |
| 5                 | 497.10                 | 53.112                            | 0.000                                 | 30                    | 0.0740             |                         | 0.0000               |                            | 0.0000                  | 0.074                               |         |
| 6                 | 497.00                 | 52.900                            | -0.212                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 | 497.00                 | 52.900                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.123                               |         |
| 8                 | 497.00                 | 52.900                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.123                               |         |
| 9                 | 496.90                 | 52.688                            | -0.212                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.424</b>                         |                       | <b>0.716</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.469</b>                        |         |
| 10                | 496.90                 | 52.688                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.123                               |         |
| 11                | 496.90                 | 52.688                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.123                               |         |
| 12                | 496.80                 | 52.476                            | -0.212                                | 40                    | 0.0987             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13                | 496.80                 | 52.476                            | 0.000                                 | 40                    | 0.0987             |                         | 0.0000               |                            | 0.0000                  | 0.099                               |         |
| 14                | 496.80                 | 52.476                            | 0.000                                 | 40                    | 0.0987             |                         | 0.0000               |                            | 0.0000                  | 0.099                               |         |
| 15                | 496.80                 | 52.476                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.494                               |         |
| 16                | 496.50                 | 51.628                            | -0.848                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.060</b>                         |                       | <b>1.530</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.938</b>                        |         |
| 17                | 496.20                 | 51.204                            | -0.424                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 18                | 496.00                 | 50.780                            | -0.424                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19                | 495.80                 | 50.356                            | -0.424                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20                | 495.60                 | 49.932                            | -0.424                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21                | 495.60                 | 49.932                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 22                | 495.60                 | 49.932                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 23                | 495.60                 | 49.932                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.696</b>                         |                       | <b>2.098</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.740</b>                        |         |
| 24                | <b>495.60</b>          | 49.932                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 25                | 495.50                 | 49.720                            | -0.212                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.035                               |         |
| 26                | 495.50                 | 49.720                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 27                | 495.50                 | 49.720                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 28                | 495.40                 | 49.310                            | -0.409                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29                | 495.40                 | 49.310                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 30                | 495.30                 | 49.310                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 31                | 495.30                 | 49.310                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.621</b>                         |                       | <b>1.974</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.516</b>                        |         |
| <b>01-01-1994</b> | 495.20                 | 49.113                            | -0.197                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.049                               |         |
| 2                 | 495.20                 | 49.113                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 3                 | 495.10                 | 48.915                            | -0.197                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4                 | 495.00                 | 48.718                            | -0.197                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.049                               |         |
| 5                 | 494.90                 | 48.521                            | -0.197                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.049                               |         |
| 6                 | 494.80                 | 48.323                            | -0.197                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.049                               |         |
| 7                 | 494.70                 | 48.126                            | -0.197                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.049                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.184</b>                         |                       | <b>1.481</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.494</b>                        |         |
| 8                 | 494.60                 | 47.928                            | -0.197                                |                       | 0.0000             | 900                     | 2.2211               |                            | 0.0000                  | 2.024                               |         |
| 9                 | 494.00                 | 46.744                            | -1.184                                |                       | 0.0000             | 900                     | 2.2211               |                            | 0.0000                  | 1.037                               |         |
| 10                | 493.10                 | 44.770                            | -1.974                                |                       | 0.0000             | 900                     | 2.2211               |                            | 0.0000                  | 0.247                               |         |
| 11                | 493.00                 | 44.770                            | 0.000                                 |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.370                               |         |
| 12                | 493.10                 | 44.770                            | 0.000                                 |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.370                               |         |
| 13                | 493.10                 | 44.770                            | 0.000                                 |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.370                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 14                | 493.10                 | 44.770                            | 0.000                                 |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.370                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-3.356</b>                         |                       | <b>0.000</b>       |                         | <b>8.144</b>         |                            | <b>0.000</b>            | <b>4.788</b>                        |         |
| 15                | 493.20                 | 45.165                            | 0.395                                 |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.765                               |         |
| 16                | 493.30                 | 45.362                            | 0.197                                 |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.568                               |         |
| 17                | 492.60                 | 43.980                            | -1.382                                | 150                   | 0.3702             | 900                     | 2.2211               |                            | 0.0000                  | 1.209                               |         |
| 18                | 491.60                 | 42.159                            | -1.822                                | 150                   | 0.3702             | 900                     | 2.2211               |                            | 0.0000                  | 0.770                               |         |
| 19                | 490.70                 | 40.611                            | -1.548                                | 150                   | 0.3702             | 900                     | 2.2211               |                            | 0.0000                  | 1.043                               |         |
| 20                | 489.00                 | 37.687                            | -2.924                                | 150                   | 0.3702             | 900                     | 2.2211               |                            | 0.0000                  | 0.000                               |         |
| 21                | 488.40                 | 36.747                            | -0.940                                | 150                   | 0.3702             | 900                     | 2.2211               |                            | 0.0000                  | 1.651                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-8.023</b>                         |                       | <b>1.851</b>       |                         | <b>11.846</b>        |                            | <b>0.000</b>            | <b>6.006</b>                        |         |
| 22                | 487.80                 | 35.825                            | -0.922                                | 150                   | 0.3702             | 900                     | 2.2211               |                            | 0.0000                  | 1.669                               |         |
| 23                | 487.00                 | 34.595                            | -1.229                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.000                               |         |
| 24                | 486.70                 | 34.134                            | -0.461                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.650                               |         |
| 25                | 486.30                 | 33.520                            | -0.615                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.496                               |         |
| 26                | 485.80                 | 32.751                            | -0.768                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.342                               |         |
| 27                | 485.20                 | 31.898                            | -0.853                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.257                               |         |
| 28                | 484.70                 | 31.215                            | -0.683                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.428                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-5.531</b>                         |                       | <b>2.591</b>       |                         | <b>6.663</b>         |                            | <b>0.000</b>            | <b>3.842</b>                        |         |
| 29                | 484.20                 | 30.396                            | -0.819                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.292                               |         |
| 30                | 483.70                 | 29.850                            | -0.546                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.565                               |         |
| 31                | 483.20                 | 29.168                            | -0.683                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.428                               |         |
| <b>02-01-1994</b> | 483.20                 | 29.168                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 483.20                 | 29.168                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 | 483.10                 | 28.895                            | -0.273                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4                 | 483.00                 | 28.895                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-2.321</b>                         |                       | <b>1.111</b>       |                         | <b>2.221</b>         |                            | <b>0.000</b>            | <b>1.284</b>                        |         |
| 5                 | 482.90                 | 28.758                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6                 | 482.80                 | 28.622                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 | 482.80                 | 28.622                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8                 | 482.70                 | 28.485                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 9                 | 482.60                 | 28.349                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10                | 482.50                 | 28.212                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11                | 482.40                 | 28.076                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.819</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 12                | 482.20                 | 27.819                            | -0.257                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13                | 482.00                 | 27.457                            | -0.361                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14                | 481.90                 | 27.457                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15                | 481.80                 | 27.337                            | -0.120                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16                | 481.70                 | 27.216                            | -0.120                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17                | 481.70                 | 27.216                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18                | 481.70                 | 27.216                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.859</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 19                | 481.60                 | 27.096                            | -0.120                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20                | 481.60                 | 27.096                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21                | 481.60                 | 27.096                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22                | 481.60                 | 27.096                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23                | 481.60                 | 27.096                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24                | 481.50                 | 26.975                            | -0.120                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                | 481.50                 | 26.975                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.241</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 26                | 481.50                 | 26.975                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27                | 481.50                 | 26.975                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28                | 481.50                 | 26.975                            | 0.000                                 | 130                   | 0.3208             |                         | 0.0000               |                            | 0.0000                  | 0.321                               |         |
| <b>03-01-1994</b> | 481.40                 | 26.855                            | -0.120                                | 130                   | 0.3208             |                         | 0.0000               |                            | 0.0000                  | 0.200                               |         |
| 2                 | 481.20                 | 26.614                            | -0.241                                | 130                   | 0.3208             |                         | 0.0000               |                            | 0.0000                  | 0.080                               |         |
| 3                 | 481.00                 | 26.373                            | -0.241                                | 130                   | 0.3208             |                         | 0.0000               |                            | 0.0000                  | 0.080                               |         |
| 4                 | 480.80                 | 26.012                            | -0.361                                | 130                   | 0.3208             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.964</b>                         |                       | <b>1.604</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.681</b>                        |         |
| 5                 | 480.70                 | 26.012                            | 0.000                                 | 130                   | 0.3208             | 400                     | 0.9872               |                            | 0.0000                  | 1.308                               |         |
| 6                 | 480.10                 | 25.289                            | -0.723                                | 150                   | 0.3702             | 400                     | 0.9872               |                            | 0.0000                  | 0.634                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 7                 | 479.10                 | 24.084                            | -1.205                                | 150                   | 0.3702             | 400                     | 0.9872               |                            | 0.0000                  | 0.153                               |         |
| 8                 | 478.00                 | 22.908                            | -1.176                                | 150                   | 0.3702             | 400                     | 0.9872               |                            | 0.0000                  | 0.181                               |         |
| 9                 | 477.20                 | 22.063                            | -0.845                                | 150                   | 0.3702             | 400                     | 0.9872               |                            | 0.0000                  | 0.513                               |         |
| 10                | 476.50                 | 21.324                            | -0.739                                | 150                   | 0.3702             | 400                     | 0.9872               |                            | 0.0000                  | 0.618                               |         |
| 11                | 475.70                 | 20.479                            | -0.845                                | 150                   | 0.3702             | 400                     | 0.9872               |                            | 0.0000                  | 0.513                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-5.533</b>                         |                       | <b>2.542</b>       |                         | <b>6.910</b>         |                            | <b>0.000</b>            | <b>3.920</b>                        |         |
| 12                | 474.80                 | 19.627                            | -0.852                                | 150                   | 0.3702             | 800                     | 1.9743               |                            | 0.0000                  | 1.492                               |         |
| 13                | 473.60                 | 18.490                            | -1.136                                | 150                   | 0.3702             | 800                     | 1.9743               |                            | 0.0000                  | 1.208                               |         |
| 14                | 472.10                 | 17.132                            | -1.359                                | 150                   | 0.3702             | 800                     | 1.9743               |                            | 0.0000                  | 0.986                               |         |
| 15                | 470.60                 | 15.943                            | -1.188                                | 150                   | 0.3702             | 800                     | 1.9743               |                            | 0.0000                  | 1.156                               |         |
| 16                | 469.10                 | 14.766                            | -1.177                                | 150                   | 0.3702             | 800                     | 1.9743               |                            | 0.0000                  | 1.168                               |         |
| 17                | 467.60                 | 13.750                            | -1.016                                | 150                   | 0.3702             | 800                     | 1.9743               |                            | 0.0000                  | 1.328                               |         |
| 18                | 465.90                 | 12.598                            | -1.152                                | 150                   | 0.3702             | 800                     | 1.9743               |                            | 0.0000                  | 1.193                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-7.881</b>                         |                       | <b>2.591</b>       |                         | <b>13.820</b>        |                            | <b>0.000</b>            | <b>8.530</b>                        |         |
| 19                | 463.80                 | 11.392                            | -1.206                                | 150                   | 0.3702             | 800                     | 1.9743               |                            | 0.0000                  | 1.139                               |         |
| 20                | 463.80                 | 11.392                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 21                | 463.70                 | 11.335                            | -0.057                                | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.004                               |         |
| 22                | 463.70                 | 11.335                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 23                | 463.60                 | 11.277                            | -0.057                                | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.004                               |         |
| 24                | 463.50                 | 11.220                            | -0.057                                | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.004                               |         |
| 25                | 463.40                 | 11.162                            | -0.057                                | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.004                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.436</b>                         |                       | <b>0.740</b>       |                         | <b>1.974</b>         |                            | <b>0.000</b>            | <b>1.279</b>                        |         |
| 26                | 463.30                 | 11.105                            | -0.057                                | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.004                               |         |
| 27                | 463.20                 | 11.048                            | -0.057                                | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.004                               |         |
| 28                | 463.20                 | 11.048                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 29                | 463.10                 | 10.990                            | -0.057                                | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.004                               |         |
| 30                | 463.10                 | 10.990                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 31                | 463.00                 | 10.933                            | -0.057                                | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.004                               |         |
| <b>04-01-1994</b> | 463.00                 | 10.933                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.230</b>                         |                       | <b>0.432</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.202</b>                        |         |



| Date         | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 2            | 463.00                 | 10.933                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 3            | 463.00                 | 10.933                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 4            | 462.90                 | 10.818                            | -0.115                                | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5            | 462.90                 | 10.818                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 6            | 462.90                 | 10.818                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 7            | 462.90                 | 10.818                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 8            | 462.80                 | 10.818                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-0.115</b>                         |                       | <b>0.432</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.370</b>                        |         |
| 9            | 462.80                 | 10.818                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 10           | 462.80                 | 10.818                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 11           | 462.80                 | 10.818                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 12           | 462.70                 | 10.760                            | -0.057                                | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.004                               |         |
| 13           | 462.70                 | 10.760                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 14           | 462.70                 | 10.760                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 15           | 462.70                 | 10.760                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-0.057</b>                         |                       | <b>0.432</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.374</b>                        |         |
| 16           | 462.70                 | 10.760                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 17           | 462.60                 | 10.703                            | -0.057                                | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.004                               |         |
| 18           | 462.60                 | 10.703                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 19           | 462.60                 | 10.703                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 20           | 462.60                 | 10.703                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 21           | 462.60                 | 10.703                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 22           | 462.50                 | 10.655                            | -0.048                                | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.013                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-0.106</b>                         |                       | <b>0.432</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.326</b>                        |         |
| 23           | 462.50                 | 10.655                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 24           | 462.50                 | 10.655                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 25           | 462.50                 | 10.655                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 26           | 462.50                 | 10.655                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 27           | 462.40                 | 10.607                            | -0.048                                | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.013                               |         |
| 28           | 462.40                 | 10.607                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 29                | 462.40                 | 10.607                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.048</b>                         |                       | <b>0.432</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.384</b>                        |         |
| 30                | 462.40                 | 10.607                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| <b>05-01-1994</b> | 462.30                 | 10.558                            | -0.048                                | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.013                               |         |
| 2                 | 462.30                 | 10.558                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 3                 | 462.30                 | 10.558                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 4                 | 462.30                 | 10.558                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 5                 | 462.30                 | 10.558                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 6                 | 462.30                 | 10.558                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.048</b>                         |                       | <b>0.432</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.384</b>                        |         |
| 7                 | 462.30                 | 10.558                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 8                 | 462.20                 | 10.510                            | -0.048                                | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.013                               |         |
| 9                 | 462.20                 | 10.510                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 10                | 462.20                 | 10.510                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 11                | 462.20                 | 10.510                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 12                | 462.20                 | 10.510                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 13                | 462.10                 | 10.462                            | -0.048                                | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.013                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.096</b>                         |                       | <b>0.432</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.335</b>                        |         |
| 14                | 462.10                 | 10.462                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 15                | 462.10                 | 10.462                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 16                | 462.10                 | 10.462                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 17                | 462.10                 | 10.462                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 18                | 462.10                 | 10.462                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 19                | 462.00                 | 10.414                            | -0.048                                | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.013                               |         |
| 20                | 462.00                 | 10.414                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.048</b>                         |                       | <b>0.432</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.384</b>                        |         |
| 21                | 462.00                 | 10.414                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 22                | 462.00                 | 10.414                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 23                | 462.00                 | 10.414                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 24                | 462.00                 | 10.414                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 25                | 461.90                 | 10.365                            | -0.048                                | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.013                               |         |
| 26                | 461.90                 | 10.365                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 27                | 461.90                 | 10.365                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.048</b>                         |                       | <b>0.432</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.384</b>                        |         |
| 28                | <b>461.90</b>          | 10.365                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 29                | 461.90                 | 10.365                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 30                | 461.90                 | 10.365                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 31                | 461.80                 | 10.269                            | -0.096                                | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>06-01-1994</b> | 461.80                 | 10.269                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 2                 | 461.80                 | 10.269                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 3                 | 461.80                 | 10.269                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.096</b>                         |                       | <b>0.432</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.370</b>                        |         |
| 4                 | 461.80                 | 10.269                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 5                 | 464.30                 | 11.679                            | 1.410                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 1.472                               |         |
| 6                 | 465.50                 | 12.368                            | 0.689                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.751                               |         |
| 7                 | 465.60                 | 12.426                            | 0.057                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.119                               |         |
| 8                 | 465.80                 | 12.541                            | 0.115                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.177                               |         |
| 9                 | 466.70                 | 13.140                            | 0.599                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.661                               |         |
| 10                | 467.00                 | 13.343                            | 0.203                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.265                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>3.074</b>                          |                       | <b>0.432</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>3.506</b>                        |         |
| 11                | 467.40                 | 13.547                            | 0.203                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.265                               |         |
| 12                | 467.40                 | 13.547                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 13                | 467.40                 | 13.547                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 14                | 467.80                 | 13.885                            | 0.339                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.400                               |         |
| 15                | 468.00                 | 14.021                            | 0.136                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.197                               |         |
| 16                | 469.10                 | 14.766                            | 0.745                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.807                               |         |
| 17                | 471.60                 | 16.735                            | 1.969                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 2.031                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>3.392</b>                          |                       | <b>0.432</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>3.824</b>                        |         |
| 18                | 472.80                 | 17.733                            | 0.997                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 1.059                               |         |
| 19                | 473.00                 | 17.922                            | 0.189                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.251                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 20                | 474.20                 | 19.058                            | 1.136                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 1.198                               |         |
| 21                | 475.00                 | 19.816                            | 0.758                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.819                               |         |
| 22                | 475.50                 | 20.290                            | 0.474                                 |                       | 0.0000             | 25                      | 0.0617               |                            | 0.0000                  | 0.535                               |         |
| 23                | 475.70                 | 20.479                            | 0.189                                 |                       | 0.0000             | 25                      | 0.0617               |                            | 0.0000                  | 0.251                               |         |
| 24                | 475.90                 | 20.690                            | 0.211                                 |                       | 0.0000             | 25                      | 0.0617               |                            | 0.0000                  | 0.273                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>3.955</b>                          |                       | <b>0.247</b>       |                         | <b>0.185</b>         |                            | <b>0.000</b>            | <b>4.387</b>                        |         |
| 25                | 476.00                 | 20.796                            | 0.106                                 |                       | 0.0000             | 25                      | 0.0617               |                            | 0.0000                  | 0.167                               |         |
| 26                | 476.00                 | 20.796                            | 0.000                                 |                       | 0.0000             | 25                      | 0.0617               |                            | 0.0000                  | 0.062                               |         |
| 27                | 476.20                 | 21.007                            | 0.211                                 |                       | 0.0000             | 25                      | 0.0617               |                            | 0.0000                  | 0.273                               |         |
| 28                | 476.50                 | 21.324                            | 0.317                                 |                       | 0.0000             | 25                      | 0.0617               |                            | 0.0000                  | 0.378                               |         |
| 29                | 476.60                 | 21.429                            | 0.106                                 |                       | 0.0000             | 25                      | 0.0617               |                            | 0.0000                  | 0.167                               |         |
| 30                | 478.40                 | 23.330                            | 1.901                                 |                       | 0.0000             | 25                      | 0.0617               |                            | 0.0000                  | 1.962                               |         |
| <b>07-01-1994</b> | 479.00                 | 23.963                            | 0.634                                 |                       | 0.0000             | 25                      | 0.0617               |                            | 0.0000                  | 0.695                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>3.273</b>                          |                       | <b>0.000</b>       |                         | <b>0.432</b>         |                            | <b>0.000</b>            | <b>3.705</b>                        |         |
| 2                 | 479.30                 | 24.325                            | 0.361                                 |                       | 0.0000             | 25                      | 0.0617               |                            | 0.0000                  | 0.423                               |         |
| 3                 | 480.00                 | 25.168                            | 0.843                                 |                       | 0.0000             | 25                      | 0.0617               |                            | 0.0000                  | 0.905                               |         |
| 4                 | 480.10                 | 25.289                            | 0.120                                 |                       | 0.0000             | 25                      | 0.0617               |                            | 0.0000                  | 0.182                               |         |
| 5                 | 481.80                 | 27.337                            | 2.048                                 |                       | 0.0000             | 25                      | 0.0617               |                            | 0.0000                  | 2.110                               |         |
| 6                 | 481.80                 | 27.337                            | 0.000                                 |                       | 0.0000             | 25                      | 0.0617               |                            | 0.0000                  | 0.062                               |         |
| 7                 | 482.20                 | 27.819                            | 0.482                                 |                       | 0.0000             | 25                      | 0.0617               |                            | 0.0000                  | 0.544                               |         |
| 8                 | 482.30                 | 27.939                            | 0.120                                 |                       | 0.0000             | 25                      | 0.0617               |                            | 0.0000                  | 0.182                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>3.976</b>                          |                       | <b>0.000</b>       |                         | <b>0.432</b>         |                            | <b>0.000</b>            | <b>4.408</b>                        |         |
| 9                 | 482.50                 | 28.212                            | 0.273                                 |                       | 0.0000             | 25                      | 0.0617               |                            | 0.0000                  | 0.335                               |         |
| 10                | 482.70                 | 28.485                            | 0.273                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.273                               |         |
| 11                | 482.70                 | 28.485                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12                | 482.70                 | 28.485                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13                | 482.80                 | 28.622                            | 0.137                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.137                               |         |
| 14                | 482.80                 | 28.622                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15                | 482.90                 | 28.758                            | 0.137                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.137                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.819</b>                          |                       | <b>0.000</b>       |                         | <b>0.062</b>         |                            | <b>0.000</b>            | <b>0.881</b>                        |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 16                | 482.90                 | 28.758                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17                | 482.90                 | 28.758                            | 0.000                                 | 50                    | 0.1234             | 100                     | 0.2468               |                            | 0.0000                  | 0.370                               |         |
| 18                | 482.90                 | 28.758                            | 0.000                                 | 50                    | 0.1234             | 100                     | 0.2468               |                            | 0.0000                  | 0.370                               |         |
| 19                | 482.50                 | 28.212                            | -0.546                                | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 0.071                               |         |
| 20                | 482.20                 | 27.819                            | -0.393                                | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 0.223                               |         |
| 21                | 482.60                 | 28.349                            | 0.530                                 | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 1.147                               |         |
| 22                | 482.80                 | 28.622                            | 0.273                                 | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 1.013                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.137</b>                         |                       | <b>0.864</b>       |                         | <b>2.468</b>         |                            | <b>0.000</b>            | <b>3.195</b>                        |         |
| 23                | 482.90                 | 28.758                            | 0.137                                 | 150                   | 0.3702             | 200                     | 0.4936               |                            | 0.0000                  | 1.000                               |         |
| 24                | 482.60                 | 28.349                            | -0.410                                | 150                   | 0.3702             | 200                     | 0.4936               |                            | 0.0000                  | 0.454                               |         |
| 25                | 482.80                 | 28.622                            | 0.273                                 | 150                   | 0.3702             | 200                     | 0.4936               |                            | 0.0000                  | 1.137                               |         |
| 26                | 483.00                 | 28.895                            | 0.273                                 | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 1.013                               |         |
| 27                | 485.70                 | 32.598                            | 3.703                                 | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 4.443                               |         |
| 28                | 485.70                 | 32.598                            | 0.000                                 | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 1.481                               |         |
| 29                | 486.70                 | 34.134                            | 1.537                                 | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 3.017                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>5.513</b>                          |                       | <b>2.098</b>       |                         | <b>4.936</b>         |                            | <b>0.000</b>            | <b>12.546</b>                       |         |
| 30                | 488.00                 | 36.132                            | 1.998                                 | 150                   | 0.3702             | 600                     | 1.4807               |                            | 0.0000                  | 3.849                               |         |
| 31                | 489.20                 | 38.031                            | 1.899                                 | 150                   | 0.3702             | 600                     | 1.4807               |                            | 0.0000                  | 3.750                               |         |
| <b>08-01-1994</b> | 489.20                 | 38.031                            | 0.000                                 | 160                   | 0.3949             | 1050                    | 2.5913               |                            | 0.0000                  | 2.986                               |         |
| 2                 | 488.20                 | 36.439                            | -1.592                                | 150                   | 0.3702             | 1050                    | 2.5913               |                            | 0.0000                  | 1.370                               |         |
| 3                 | 489.00                 | 37.687                            | 1.248                                 | 150                   | 0.3702             | 1100                    | 2.7147               |                            | 0.0000                  | 4.333                               |         |
| 4                 | 489.00                 | 37.687                            | 0.000                                 | 200                   | 0.4936             | 1100                    | 2.7147               |                            | 0.0000                  | 3.208                               |         |
| 5                 | 487.90                 | 35.978                            | -1.709                                | 200                   | 0.4936             | 1150                    | 2.8381               |                            | 0.0000                  | 1.623                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>1.844</b>                          |                       | <b>2.863</b>       |                         | <b>16.412</b>        |                            | <b>0.000</b>            | <b>21.118</b>                       |         |
| 6                 | 486.60                 | 33.981                            | -1.998                                | 200                   | 0.4936             | 1150                    | 2.8381               |                            | 0.0000                  | 1.334                               |         |
| 7                 | 485.10                 | 31.761                            | -2.219                                | 200                   | 0.4936             | 1150                    | 2.8381               |                            | 0.0000                  | 1.112                               |         |
| 8                 | 484.40                 | 30.806                            | -0.956                                | 200                   | 0.4936             | 1150                    | 2.8381               |                            | 0.0000                  | 2.376                               |         |
| 9                 | 483.90                 | 30.123                            | -0.683                                | 150                   | 0.3702             | 900                     | 2.2211               |                            | 0.0000                  | 1.909                               |         |
| 10                | 482.90                 | 28.758                            | -1.365                                | 175                   | 0.4319             | 900                     | 2.2211               |                            | 0.0000                  | 1.288                               |         |
| 11                | 481.50                 | 26.975                            | -1.783                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 0.685                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 12                | 480.10                 | 25.289                            | -1.687                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 0.781                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-10.690</b>                        |                       | <b>3.270</b>       |                         | <b>16.905</b>        |                            | <b>0.000</b>            | <b>9.485</b>                        |         |
| 13                | 478.70                 | 23.647                            | -1.642                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 0.826                               |         |
| 14                | 478.00                 | 22.908                            | -0.739                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 1.729                               |         |
| 15                | 477.20                 | 22.063                            | -0.845                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 1.623                               |         |
| 16                | 485.00                 | 31.625                            | 9.562                                 | 50                    | 0.1234             | 600                     | 1.4807               |                            | 0.0000                  | 11.166                              |         |
| 17                | 486.20                 | 33.366                            | 1.741                                 | 50                    | 0.1234             | 600                     | 1.4807               |                            | 0.0000                  | 3.345                               |         |
| 18                | 486.00                 | 33.059                            | -0.307                                | 50                    | 0.1234             | 600                     | 1.4807               |                            | 0.0000                  | 1.297                               |         |
| 19                | 487.00                 | 34.595                            | 1.537                                 | 50                    | 0.1234             | 600                     | 1.4807               |                            | 0.0000                  | 3.141                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>9.307</b>                          |                       | <b>1.974</b>       |                         | <b>11.846</b>        |                            | <b>0.000</b>            | <b>23.127</b>                       |         |
| 20                | 487.10                 | 34.749                            | 0.154                                 | 150                   | 0.3702             | 450                     | 1.1106               |                            | 0.0000                  | 1.634                               |         |
| 21                | 487.00                 | 34.595                            | -0.154                                | 150                   | 0.3702             | 450                     | 1.1106               |                            | 0.0000                  | 1.327                               |         |
| 22                | 487.60                 | 35.517                            | 0.922                                 | 150                   | 0.3702             | 450                     | 1.1106               |                            | 0.0000                  | 2.403                               |         |
| 23                | 488.80                 | 37.361                            | 1.844                                 | 150                   | 0.3702             | 450                     | 1.1106               |                            | 0.0000                  | 3.325                               |         |
| 24                | 489.00                 | 37.687                            | 0.326                                 | 170                   | 0.4195             | 430                     | 1.0612               |                            | 0.0000                  | 1.806                               |         |
| 25                | 489.40                 | 38.375                            | 0.688                                 | 170                   | 0.4195             | 530                     | 1.3080               |                            | 0.0000                  | 2.415                               |         |
| 26                | 489.90                 | 39.235                            | 0.860                                 | 170                   | 0.4195             | 530                     | 1.3080               |                            | 0.0000                  | 2.587                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>4.640</b>                          |                       | <b>2.739</b>       |                         | <b>8.119</b>         |                            | <b>0.000</b>            | <b>15.498</b>                       |         |
| 27                | 490.00                 | 39.407                            | 0.172                                 | 170                   | 0.4195             | 530                     | 1.3080               |                            | 0.0000                  | 1.900                               |         |
| 28                | 489.90                 | 39.235                            | -0.172                                |                       | 0.0000             | 792                     | 1.9546               |                            | 0.0000                  | 1.783                               |         |
| 29                | 489.80                 | 38.891                            | -0.344                                | 100                   | 0.2468             | 692                     | 1.7078               |                            | 0.0000                  | 1.611                               |         |
| 30                | 489.40                 | 38.375                            | -0.516                                | 100                   | 0.2468             | 692                     | 1.7078               |                            | 0.0000                  | 1.439                               |         |
| 31                | 488.90                 | 37.515                            | -0.860                                | 100                   | 0.2468             | 692                     | 1.7078               |                            | 0.0000                  | 1.095                               |         |
| <b>09-01-1994</b> | 488.40                 | 36.747                            | -0.768                                | 100                   | 0.2468             | 692                     | 1.7078               |                            | 0.0000                  | 1.186                               |         |
| 2                 | 488.10                 | 36.286                            | -0.461                                | 100                   | 0.2468             | 692                     | 1.7078               |                            | 0.0000                  | 1.494                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-2.949</b>                         |                       | <b>1.653</b>       |                         | <b>11.801</b>        |                            | <b>0.000</b>            | <b>10.506</b>                       |         |
| 3                 | 487.70                 | 35.671                            | -0.615                                | 100                   | 0.2468             | 692                     | 1.7078               |                            | 0.0000                  | 1.340                               |         |
| 4                 | 487.00                 | 34.595                            | -1.076                                | 100                   | 0.2468             | 692                     | 1.7078               |                            | 0.0000                  | 0.879                               |         |
| 5                 | 486.10                 | 33.212                            | -1.383                                | 150                   | 0.3702             | 692                     | 1.7078               |                            | 0.0000                  | 0.695                               |         |
| 6                 | 486.20                 | 33.366                            | 0.154                                 | 150                   | 0.3702             | 692                     | 1.7078               |                            | 0.0000                  | 2.232                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 7                 | 484.90                 | 31.488                            | -1.878                                | 150                   | 0.3702             | 750                     | 1.8509               |                            | 0.0000                  | 0.344                               |         |
| 8                 | 483.70                 | 29.850                            | -1.638                                | 150                   | 0.3702             | 875                     | 2.1594               |                            | 0.0000                  | 0.892                               |         |
| 9                 | 482.40                 | 28.076                            | -1.775                                | 200                   | 0.4936             | 875                     | 2.1594               |                            | 0.0000                  | 0.878                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-8.210</b>                         |                       | <b>2.468</b>       |                         | <b>13.001</b>        |                            | <b>0.000</b>            | <b>7.259</b>                        |         |
| 10                | 480.10                 | 25.289                            | -2.787                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 0.174                               |         |
| 11                | 478.50                 | 23.435                            | -1.853                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.108                               |         |
| 12                | 476.80                 | 21.641                            | -1.795                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.166                               |         |
| 13                | 476.70                 | 21.535                            | -0.106                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 2.856                               |         |
| 14                | 478.30                 | 23.224                            | 1.689                                 | 188                   | 0.4640             | 1000                    | 2.4679               |                            | 0.0000                  | 4.621                               |         |
| 15                | 478.70                 | 23.647                            | 0.422                                 | 188                   | 0.4640             | 1000                    | 2.4679               |                            | 0.0000                  | 3.354                               |         |
| 16                | 478.20                 | 23.119                            | -0.528                                | 188                   | 0.4640             | 1000                    | 2.4679               |                            | 0.0000                  | 2.404                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-4.957</b>                         |                       | <b>3.366</b>       |                         | <b>17.275</b>        |                            | <b>0.000</b>            | <b>15.685</b>                       |         |
| 17                | 477.00                 | 21.852                            | -1.267                                | 188                   | 0.4640             | 1000                    | 2.4679               |                            | 0.0000                  | 1.665                               |         |
| 18                | 475.40                 | 20.195                            | -1.657                                | 188                   | 0.4640             | 1000                    | 2.4679               |                            | 0.0000                  | 1.275                               |         |
| 19                | 473.80                 | 18.680                            | -1.515                                | 188                   | 0.4640             | 750                     | 1.8509               |                            | 0.0000                  | 0.800                               |         |
| 20                | 473.00                 | 17.922                            | -0.758                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.723                               |         |
| 21                | 472.40                 | 17.369                            | -0.553                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.928                               |         |
| 22                | 471.60                 | 16.735                            | -0.634                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.847                               |         |
| 23                | 470.90                 | 16.181                            | -0.555                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.926                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-6.938</b>                         |                       | <b>2.379</b>       |                         | <b>11.723</b>        |                            | <b>0.000</b>            | <b>7.164</b>                        |         |
| 24                | 469.30                 | 14.913                            | -1.268                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.213                               |         |
| 25                | 468.00                 | 14.021                            | -0.892                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.588                               |         |
| 26                | 466.70                 | 13.140                            | -0.881                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.600                               |         |
| 27                | 465.30                 | 12.253                            | -0.887                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.594                               |         |
| 28                | 463.70                 | 11.335                            | -0.919                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.562                               |         |
| 29                | 461.90                 | 10.365                            | -0.969                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 0.758                               |         |
| 30                | 459.70                 | 9.304                             | -1.061                                | 250                   | 0.6170             | 1050                    | 2.5913               |                            | 0.0000                  | 2.147                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-6.877</b>                         |                       | <b>2.345</b>       |                         | <b>9.995</b>         |                            | <b>0.000</b>            | <b>5.463</b>                        |         |
| <b>10-01-1994</b> | 457.60                 | 8.407                             | -0.897                                | 250                   | 0.6170             | 1050                    | 2.5913               |                            | 0.0000                  | 2.311                               |         |
| 2                 | 454.90                 | 7.386                             | -1.021                                | 250                   | 0.6170             | 1050                    | 2.5913               |                            | 0.0000                  | 2.187                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 3            | 451.70                 | 6.385                             | -1.001                                | 250                   | 0.6170             | 1050                    | 2.5913               |                            | 0.0000                  | 2.207                               |         |
| 4            | 448.80                 | 5.607                             | -0.778                                | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 2.800                               |         |
| 5            | 446.80                 | 5.112                             | -0.495                                |                       | 0.0000             | 1200                    | 2.9615               |                            | 0.0000                  | 2.467                               |         |
| 6            | 443.90                 | 4.403                             | -0.708                                | 205                   | 0.5059             | 1200                    | 2.9615               |                            | 0.0000                  | 2.759                               |         |
| 7            | 440.20                 | 3.493                             | -0.911                                | 205                   | 0.5059             | 1200                    | 2.9615               |                            | 0.0000                  | 2.557                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-5.812</b>                         |                       | <b>3.480</b>       |                         | <b>19.620</b>        |                            | <b>0.000</b>            | <b>17.288</b>                       |         |
| 8            | 436.10                 | 2.522                             | -0.971                                | 235                   | 0.5800             | 1300                    | 3.2083               |                            | 0.0000                  | 2.817                               |         |
| 9            | 472.00                 | 17.052                            | 14.530                                | 100                   | 0.2468             | 600                     | 1.4807               |                            | 0.0000                  | 16.258                              |         |
| 10           | 482.00                 | 27.457                            | 10.405                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 10.528                              |         |
| 11           | 484.10                 | 30.396                            | 2.939                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.939                               |         |
| 12           | 485.00                 | 31.625                            | 1.229                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.229                               |         |
| 13           | 485.60                 | 32.444                            | 0.819                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.819                               |         |
| 14           | 485.90                 | 32.905                            | 0.461                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.461                               |         |
| <b>TOTAL</b> |                        |                                   | <b>29.412</b>                         |                       | <b>0.950</b>       |                         | <b>4.689</b>         |                            | <b>0.000</b>            | <b>35.051</b>                       |         |
| 15           | 486.20                 | 33.366                            | 0.461                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.461                               |         |
| 16           | 486.40                 | 33.520                            | 0.154                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.154                               |         |
| 17           | 486.50                 | 33.827                            | 0.307                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.307                               |         |
| 18           | 486.60                 | 33.981                            | 0.154                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.154                               |         |
| 19           | 486.60                 | 33.981                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20           | 484.70                 | 31.215                            | -2.765                                | 250                   | 0.6170             | 1400                    | 3.4551               |                            | 0.0000                  | 1.307                               |         |
| 21           | 482.70                 | 28.485                            | -2.730                                | 250                   | 0.6170             | 1400                    | 3.4551               |                            | 0.0000                  | 1.342                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-4.420</b>                         |                       | <b>1.234</b>       |                         | <b>6.910</b>         |                            | <b>0.000</b>            | <b>3.724</b>                        |         |
| 22           | 480.60                 | 25.891                            | -2.594                                | 250                   | 0.6170             | 1400                    | 3.4551               |                            | 0.0000                  | 1.478                               |         |
| 23           | 478.40                 | 23.330                            | -2.561                                | 250                   | 0.6170             | 1400                    | 3.4551               |                            | 0.0000                  | 1.511                               |         |
| 24           | 476.10                 | 20.901                            | -2.429                                | 250                   | 0.6170             | 1400                    | 3.4551               |                            | 0.0000                  | 1.644                               |         |
| 25           | 475.10                 | 19.911                            | -0.991                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.490                               |         |
| 26           | 474.00                 | 18.869                            | -1.042                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.439                               |         |
| 27           | 473.00                 | 17.922                            | -0.947                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.534                               |         |
| 28           | 472.20                 | 17.211                            | -0.711                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.770                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-11.274</b>                        |                       | <b>2.838</b>       |                         | <b>15.301</b>        |                            | <b>0.000</b>            | <b>6.865</b>                        |         |



| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 29                | 472.20                 | 17.211                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30                | 472.20                 | 17.211                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31                | 472.30                 | 17.290                            | 0.079                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.079                               |         |
| <b>11-01-1994</b> | 472.30                 | 17.290                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 472.30                 | 17.290                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 | 472.40                 | 17.369                            | 0.079                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.079                               |         |
| 4                 | 472.40                 | 17.369                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.158</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.158</b>                        |         |
| 5                 | 472.40                 | 17.369                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6                 | 472.50                 | 17.448                            | 0.079                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.079                               |         |
| 7                 | 472.50                 | 17.448                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8                 | 472.60                 | 17.543                            | 0.095                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.095                               |         |
| 9                 | 472.70                 | 17.638                            | 0.095                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.095                               |         |
| 10                | 472.80                 | 17.733                            | 0.095                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.095                               |         |
| 11                | 472.90                 | 17.827                            | 0.095                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.095                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.458</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.458</b>                        |         |
| 12                | 473.00                 | 17.922                            | 0.095                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.095                               |         |
| 13                | 473.20                 | 18.111                            | 0.189                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.189                               |         |
| 14                | 473.30                 | 18.206                            | 0.095                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.095                               |         |
| 15                | 473.50                 | 18.396                            | 0.189                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.189                               |         |
| 16                | 473.60                 | 18.490                            | 0.095                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.095                               |         |
| 17                | 473.70                 | 18.585                            | 0.095                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.095                               |         |
| 18                | 473.80                 | 18.680                            | 0.095                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.095                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.852</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.852</b>                        |         |
| 19                | 473.80                 | 18.680                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20                | 473.90                 | 18.774                            | 0.095                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.095                               |         |
| 21                | 474.00                 | 18.869                            | 0.095                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.095                               |         |
| 22                | 474.10                 | 18.869                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23                | 474.20                 | 19.058                            | 0.189                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.189                               |         |
| 24                | 474.30                 | 19.153                            | 0.095                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.095                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 25                | 474.40                 | 19.248                            | 0.095                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.095                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.568</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.568</b>                        |         |
| 26                | 474.50                 | 19.343                            | 0.095                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.095                               |         |
| 27                | 474.60                 | 19.437                            | 0.095                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.095                               |         |
| 28                | 474.70                 | 19.532                            | 0.095                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.095                               |         |
| 29                | 474.70                 | 19.532                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30                | 474.70                 | 19.532                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>12-01-1994</b> | 474.70                 | 19.532                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 474.60                 | 19.437                            | -0.095                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.189</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.284</b>                        |         |
| 3                 | 474.60                 | 19.437                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4                 | 474.50                 | 19.343                            | -0.095                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5                 | 474.40                 | 19.248                            | -0.095                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6                 | 474.40                 | 19.248                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 | 474.30                 | 19.153                            | -0.095                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8                 | 474.30                 | 19.153                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9                 | 474.20                 | 19.058                            | -0.095                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.379</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 10                | 474.20                 | 19.058                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11                | 474.10                 | 18.869                            | -0.189                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12                | 474.00                 | 18.869                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13                | 474.00                 | 18.869                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14                | 473.90                 | 18.774                            | -0.095                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15                | 473.80                 | 18.680                            | -0.095                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16                | 473.80                 | 18.680                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.379</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 17                | 473.70                 | 18.585                            | -0.095                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18                | 473.60                 | 18.490                            | -0.095                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19                | 473.60                 | 18.490                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20                | 473.50                 | 18.396                            | -0.095                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date              | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 21                | 473.40                 | 18.301                            | -0.095                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22                | 473.40                 | 18.301                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23                | 473.30                 | 18.206                            | -0.095                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.474</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 24                | 473.20                 | 18.111                            | -0.095                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                | 473.20                 | 18.111                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26                | 473.10                 | 18.017                            | -0.095                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27                | 473.10                 | 18.017                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28                | 473.00                 | 17.922                            | -0.095                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29                | 473.00                 | 17.922                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30                | 472.90                 | 17.827                            | -0.095                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31                | 472.80                 | 17.733                            | -0.095                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.474</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| <b>01-01-1995</b> | 472.80                 | 17.733                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 472.70                 | 17.638                            | -0.095                                | 70                    | 0.1728             | 100                     | 0.2468               |                            | 0.0000                  | 0.325                               |         |
| 3                 | 472.40                 | 17.369                            | -0.269                                | 70                    | 0.1728             | 100                     | 0.2468               |                            | 0.0000                  | 0.151                               |         |
| 4                 | 472.10                 | 17.132                            | -0.238                                | 70                    | 0.1728             | 100                     | 0.2468               |                            | 0.0000                  | 0.182                               |         |
| 5                 | 471.70                 | 16.815                            | -0.317                                | 100                   | 0.2468             | 100                     | 0.2468               |                            | 0.0000                  | 0.177                               |         |
| 6                 | 471.30                 | 16.498                            | -0.317                                | 100                   | 0.2468             | 100                     | 0.2468               |                            | 0.0000                  | 0.177                               |         |
| 7                 | 470.90                 | 16.181                            | -0.317                                | 100                   | 0.2468             | 100                     | 0.2468               |                            | 0.0000                  | 0.177                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.552</b>                         |                       | <b>1.259</b>       |                         | <b>1.481</b>         |                            | <b>0.000</b>            | <b>1.188</b>                        |         |
| 8                 | 470.50                 | 15.864                            | -0.317                                | 100                   | 0.2468             | 100                     | 0.2468               |                            | 0.0000                  | 0.177                               |         |
| 9                 | 470.00                 | 15.468                            | -0.396                                | 100                   | 0.2468             | 100                     | 0.2468               |                            | 0.0000                  | 0.097                               |         |
| 10                | 469.30                 | 14.913                            | -0.555                                | 100                   | 0.2468             | 100                     | 0.2468               |                            | 0.0000                  | 0.000                               |         |
| 11                | 468.80                 | 14.563                            | -0.350                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 1.130                               |         |
| 12                | 467.70                 | 13.818                            | -0.745                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.735                               |         |
| 13                | 466.50                 | 13.005                            | -0.813                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.668                               |         |
| 14                | 465.30                 | 12.253                            | -0.751                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.730                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-3.927</b>                         |                       | <b>1.728</b>       |                         | <b>5.676</b>         |                            | <b>0.000</b>            | <b>3.537</b>                        |         |
| 15                | 463.90                 | 11.450                            | -0.804                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.677                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 16                | 462.60                 | 10.703                            | -0.747                                |                       | 0.0000             | 700                     | 1.7275               |                            | 0.0000                  | 0.981                               |         |
| 17                | 460.50                 | 9.690                             | -1.013                                |                       | 0.0000             | 700                     | 1.7275               |                            | 0.0000                  | 0.715                               |         |
| 18                | 459.10                 | 9.029                             | -0.662                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.079                               |         |
| 19                | 458.20                 | 8.656                             | -0.373                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.367                               |         |
| 20                | 457.50                 | 8.324                             | -0.332                                |                       | 0.0000             | 500                     | 1.2339               |                            | 0.0000                  | 0.902                               |         |
| 21                | 456.10                 | 7.785                             | -0.539                                |                       | 0.0000             | 500                     | 1.2339               |                            | 0.0000                  | 0.695                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-4.468</b>                         |                       | <b>0.247</b>       |                         | <b>8.638</b>         |                            | <b>0.000</b>            | <b>4.416</b>                        |         |
| 22                | 454.90                 | 7.386                             | -0.399                                |                       | 0.0000             | 500                     | 1.2339               |                            | 0.0000                  | 0.835                               |         |
| 23                | 453.80                 | 7.020                             | -0.366                                |                       | 0.0000             | 500                     | 1.2339               |                            | 0.0000                  | 0.868                               |         |
| 24                | 452.70                 | 6.660                             | -0.360                                | 70                    | 0.1728             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                | 452.60                 | 6.632                             | -0.028                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.219                               |         |
| 26                | 452.40                 | 6.577                             | -0.055                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.192                               |         |
| 27                | 452.20                 | 6.522                             | -0.055                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.192                               |         |
| 28                | 452.00                 | 6.467                             | -0.055                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.192                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.318</b>                         |                       | <b>1.160</b>       |                         | <b>2.468</b>         |                            | <b>0.000</b>            | <b>2.497</b>                        |         |
| 29                | 451.80                 | 6.412                             | -0.055                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.192                               |         |
| 30                | 451.60                 | 6.357                             | -0.055                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.192                               |         |
| 31                | 451.30                 | 6.275                             | -0.083                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.164                               |         |
| <b>02-01-1995</b> | 451.10                 | 6.220                             | -0.055                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.192                               |         |
| 2                 | 450.80                 | 6.110                             | -0.110                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.137                               |         |
| 3                 | 450.40                 | 6.027                             | -0.083                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.164                               |         |
| 4                 | 450.00                 | 5.917                             | -0.110                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.137                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.550</b>                         |                       | <b>1.728</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.177</b>                        |         |
| 5                 | 449.60                 | 5.807                             | -0.110                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.013                               |         |
| 6                 | 449.20                 | 5.706                             | -0.102                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.022                               |         |
| 7                 | 448.70                 | 5.582                             | -0.124                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8                 | 448.30                 | 5.483                             | -0.099                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.024                               |         |
| 9                 | 447.80                 | 5.359                             | -0.124                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10                | 447.50                 | 5.285                             | -0.074                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.049                               |         |
| 11                | 447.20                 | 5.211                             | -0.074                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.049                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.707</b>                         |                       | <b>0.864</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.158</b>                        |         |
| 12                | 446.80                 | 5.112                             | -0.099                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.148                               |         |
| 13                | 446.50                 | 5.038                             | -0.074                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.173                               |         |
| 14                | 446.10                 | 4.939                             | -0.099                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.148                               |         |
| 15                | 445.70                 | 4.842                             | -0.097                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.149                               |         |
| 16                | 445.30                 | 4.744                             | -0.097                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.149                               |         |
| 17                | 445.00                 | 4.671                             | -0.073                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.174                               |         |
| 18                | 445.00                 | 4.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.540</b>                         |                       | <b>1.481</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.941</b>                        |         |
| 19                | 444.90                 | 4.647                             | -0.024                                |                       | 0.0000             | 450                     | 1.1106               |                            | 0.0000                  | 1.086                               |         |
| 20                | 444.00                 | 4.428                             | -0.219                                |                       | 0.0000             | 450                     | 1.1106               |                            | 0.0000                  | 0.891                               |         |
| 21                | 442.90                 | 4.160                             | -0.268                                |                       | 0.0000             | 450                     | 1.1106               |                            | 0.0000                  | 0.843                               |         |
| 22                | 441.60                 | 3.839                             | -0.321                                |                       | 0.0000             | 450                     | 1.1106               |                            | 0.0000                  | 0.789                               |         |
| 23                | 439.80                 | 3.394                             | -0.445                                |                       | 0.0000             | 450                     | 1.1106               |                            | 0.0000                  | 0.666                               |         |
| 24                | 438.00                 | 2.968                             | -0.425                                |                       | 0.0000             | 450                     | 1.1106               |                            | 0.0000                  | 0.685                               |         |
| 25                | 437.00                 | 2.733                             | -0.236                                |                       | 0.0000             | 450                     | 1.1106               |                            | 0.0000                  | 0.875                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.938</b>                         |                       | <b>0.000</b>       |                         | <b>7.774</b>         |                            | <b>0.000</b>            | <b>5.836</b>                        |         |
| 26                | 434.60                 | 2.174                             | -0.559                                |                       | 0.0000             | 450                     | 1.1106               |                            | 0.0000                  | 0.552                               |         |
| 27                | 433.00                 | 1.804                             | -0.370                                |                       | 0.0000             | 450                     | 1.1106               |                            | 0.0000                  | 0.740                               |         |
| 28                | 432.40                 | 1.667                             | -0.137                                |                       | 0.0000             | 450                     | 1.1106               |                            | 0.0000                  | 0.974                               |         |
| <b>03-01-1995</b> | 430.90                 | 1.325                             | -0.342                                | 100                   | 0.2468             | 450                     | 1.1106               |                            | 0.0000                  | 1.016                               |         |
| 2                 | 429.00                 | 0.895                             | -0.430                                | 40                    | 0.0987             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 | 428.60                 | 0.806                             | -0.090                                | 30                    | 0.0740             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4                 | 428.60                 | 0.806                             | 0.000                                 | 10                    | 0.0247             |                         | 0.0000               |                            | 0.0000                  | 0.025                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.927</b>                         |                       | <b>0.444</b>       |                         | <b>4.442</b>         |                            | <b>0.000</b>            | <b>3.306</b>                        |         |
| 5                 |                        |                                   | -0.806                                |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 6                 |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 7                 |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 8                 |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 9                 |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |

| Date            | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                 |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 10              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 11              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-0.806</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 12              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 13              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 14              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 15              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 16              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 17              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 18              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 19              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 20              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 21              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 22              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 23              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 24              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 25              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 26              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 27              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 28              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 29              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 30              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 31              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| <b>1/4/1995</b> |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 2               |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 3               |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |

| Date         | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 4            |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 5            |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 6            |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 7            |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 8            |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 9            |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 10           |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 11           |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 12           |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 13           |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 14           |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 15           |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 16           |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 17           |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 18           |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 19           |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 20           |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 21           |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 22           |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 23           |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 24           |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 25           |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 26           |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 27           |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 28           |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |

| Date            | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                 |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 29              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 30              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| <b>1/5/1995</b> |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 2               |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 3               |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 4               |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 5               |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 6               |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 7               |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 8               |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 9               |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 10              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 11              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 12              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 13              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 14              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 15              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 16              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 17              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 18              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 19              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 20              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 21              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 22              |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |



| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 23                |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 24                |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 25                |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 26                |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 27                |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 28                |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 29                |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 30                |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| 31                |                        |                                   | 0.000                                 |                       | 0.000              |                         | 0.000                |                            | 0.000                   | 0.000                               |         |
| <b>06-01-1995</b> |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 4                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8                 | 427.30                 | 0.492                             | 0.492                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.492                               |         |
| 9                 | 428.00                 | 0.671                             | 0.179                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.179                               |         |
| 10                | 429.00                 | 0.895                             | 0.224                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.224                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.895</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.895</b>                        |         |
| 11                | 431.00                 | 1.348                             | 0.453                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.453                               |         |
| 12                | 444.00                 | 4.428                             | 3.080                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 3.080                               |         |
| 13                | 447.00                 | 5.161                             | 0.734                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.734                               |         |
| 14                | 447.90                 | 5.384                             | 0.223                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.223                               |         |
| 15                | 448.50                 | 5.532                             | 0.148                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.148                               |         |
| 16                | 450.20                 | 5.972                             | 0.440                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.440                               |         |
| 17                | 455.50                 | 7.586                             | 1.613                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.613                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b>      |                        |                                   | <b>6.690</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>6.690</b>                        |         |
| 18                | 455.90                 | 7.719                             | 0.133                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.133                               |         |
| 19                | 456.80                 | 8.075                             | 0.357                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.357                               |         |
| 20                | 457.00                 | 8.158                             | 0.083                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.083                               |         |
| 21                | 458.30                 | 8.697                             | 0.539                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.539                               |         |
| 22                | 458.90                 | 8.946                             | 0.249                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.249                               |         |
| 23                | 459.20                 | 9.070                             | 0.124                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.124                               |         |
| 24                | 460.00                 | 9.449                             | 0.379                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.379                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>1.863</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.863</b>                        |         |
| 25                | 463.70                 | 11.335                            | 1.886                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.886                               |         |
| 26                | 465.50                 | 12.368                            | 1.034                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.034                               |         |
| 27                | 466.00                 | 12.666                            | 0.297                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.297                               |         |
| 28                | 466.50                 | 13.005                            | 0.339                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.339                               |         |
| 29                | 466.50                 | 13.005                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30                | 466.50                 | 13.005                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>07-01-1995</b> | 466.50                 | 13.005                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>3.556</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>3.556</b>                        |         |
| 2                 | 470.40                 | 15.785                            | 2.780                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.780                               |         |
| 3                 | 479.00                 | 23.963                            | 8.179                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 8.179                               |         |
| 4                 | 481.50                 | 26.975                            | 3.012                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 3.012                               |         |
| 5                 | 482.40                 | 28.076                            | 1.100                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.100                               |         |
| 6                 | 484.20                 | 30.396                            | 2.321                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.321                               |         |
| 7                 | 484.70                 | 31.215                            | 0.819                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.819                               |         |
| 8                 | 485.10                 | 31.761                            | 0.546                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.546                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>18.757</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>18.757</b>                       |         |
| 9                 | 486.20                 | 33.366                            | 1.605                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.605                               |         |
| 10                | 491.60                 | 42.159                            | 8.793                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 8.793                               |         |
| 11                | 495.10                 | 48.915                            | 6.757                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 6.757                               |         |
| 12                | 495.10                 | 48.915                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13                | 495.70                 | 50.144                            | 1.228                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.228                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 14                | 496.00                 | 50.780                            | 0.636                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.636                               |         |
| 15                | 496.40                 | 51.628                            | 0.848                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.848                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>19.866</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>19.866</b>                       |         |
| 16                | 496.90                 | 52.688                            | 1.060                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.060                               |         |
| 17                | 497.00                 | 52.900                            | 0.212                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.212                               |         |
| 18                | 497.20                 | 53.324                            | 0.424                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.424                               |         |
| 19                | 497.50                 | 53.960                            | 0.636                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.636                               |         |
| 20                | 497.80                 | 54.596                            | 0.636                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.636                               |         |
| 21                | 498.30                 | 55.656                            | 1.060                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.060                               |         |
| 22                | 498.50                 | 56.080                            | 0.424                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.547                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>4.452</b>                          |                       | <b>0.123</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>4.576</b>                        |         |
| 23                | 499.00                 | 58.233                            | 2.153                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 2.277                               |         |
| 24                | 500.90                 | 63.997                            | 5.764                                 | 50                    | 0.1234             |                         | 0.0000               | 1646                       | 4.0622                  | 9.949                               |         |
| 25                | 500.60                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 706                        | 1.7423                  | 1.866                               |         |
| 26                | 500.40                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 498                        | 1.2290                  | 1.476                               |         |
| 27                | 500.20                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 173                        | 0.4269                  | 0.797                               |         |
| 28                | 500.10                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.529                               |         |
| 29                | 500.00                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.370                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>7.917</b>                          |                       | <b>1.728</b>       |                         | <b>0.000</b>         |                            | <b>7.619</b>            | <b>17.264</b>                       |         |
| 30                | 499.60                 | 61.691                            | -2.305                                | 150                   | 0.3702             | 600                     | 1.4807               |                            | 0.0000                  | 0.000                               |         |
| 31                | 499.10                 | 58.810                            | -2.882                                | 150                   | 0.3702             | 600                     | 1.4807               |                            | 0.0000                  | 0.000                               |         |
| <b>08-01-1995</b> | 500.80                 | 63.997                            | 5.187                                 | 50                    | 0.1234             |                         | 0.0000               | 1388                       | 3.4254                  | 8.736                               |         |
| 2                 | 500.50                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 694                        | 1.7127                  | 1.836                               |         |
| 3                 | 500.30                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 328                        | 0.8095                  | 0.933                               |         |
| 4                 | 500.20                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 173                        | 0.4269                  | 0.550                               |         |
| 5                 | 500.30                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 328                        | 0.8095                  | 0.933                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>1.357</b>       |                         | <b>2.961</b>         |                            | <b>7.184</b>            | <b>12.988</b>                       |         |
| 6                 | 500.40                 | 63.997                            | 0.000                                 | 50                    | 0.1234             | 500                     | 1.2339               | 498                        | 1.2290                  | 2.586                               |         |
| 7                 | 500.30                 | 63.997                            | 0.000                                 | 50                    | 0.1234             | 500                     | 1.2339               | 328                        | 0.8095                  | 2.167                               |         |
| 8                 | 501.10                 | 63.997                            | 0.000                                 | 50                    | 0.1234             | 500                     | 1.2339               | 2216                       | 5.4689                  | 6.826                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 9                 | 500.80                 | 63.997                            | 0.000                                 | 50                    | 0.1234             | 500                     | 1.2339               | 1388                       | 3.4254                  | 4.783                               |         |
| 10                | 500.60                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 706                        | 1.7423                  | 2.113                               |         |
| 11                | 500.60                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 706                        | 1.7423                  | 2.113                               |         |
| 12                | 500.60                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 706                        | 1.7423                  | 2.113                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>1.604</b>       |                         | <b>4.936</b>         |                            | <b>16.160</b>           | <b>22.700</b>                       |         |
| 13                | 500.60                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 706                        | 1.7423                  | 2.236                               |         |
| 14                | 500.60                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 706                        | 1.7423                  | 2.236                               |         |
| 15                | 500.40                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 498                        | 1.2290                  | 1.723                               |         |
| 16                | 500.40                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 498                        | 1.2290                  | 1.723                               |         |
| 17                | 501.00                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 1927                       | 4.7556                  | 5.249                               |         |
| 18                | 500.60                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 706                        | 1.7423                  | 2.236                               |         |
| 19                | 500.40                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 498                        | 1.2290                  | 1.723                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>3.455</b>       |                         | <b>0.000</b>         |                            | <b>13.670</b>           | <b>17.125</b>                       |         |
| 20                | 500.80                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 1388                       | 3.4254                  | 3.919                               |         |
| 21                | 500.60                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 706                        | 1.7423                  | 2.236                               |         |
| 22                | 500.40                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 498                        | 1.2290                  | 1.723                               |         |
| 23                | 500.30                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 328                        | 0.8095                  | 1.303                               |         |
| 24                | 500.40                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 498                        | 1.2290                  | 1.723                               |         |
| 25                | 500.20                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 173                        | 0.4269                  | 0.921                               |         |
| 26                | 500.10                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.652                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>3.455</b>       |                         | <b>0.000</b>         |                            | <b>9.021</b>            | <b>12.476</b>                       |         |
| 27                | 499.60                 | 61.691                            | -2.306                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 0.162                               |         |
| 28                | 498.80                 | 56.504                            | -5.187                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 0.000                               |         |
| 29                | 498.00                 | 55.020                            | -1.484                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.477                               |         |
| 30                | 496.90                 | 52.688                            | -2.332                                | 200                   | 0.4936             | 1350                    | 3.3317               |                            | 0.0000                  | 1.493                               |         |
| 31                | 495.60                 | 49.932                            | -2.756                                | 200                   | 0.4936             | 1350                    | 3.3317               |                            | 0.0000                  | 1.069                               |         |
| <b>09-01-1995</b> | 494.40                 | 47.534                            | -2.398                                | 200                   | 0.4936             | 1350                    | 3.3317               |                            | 0.0000                  | 1.427                               |         |
| 2                 | 493.00                 | 44.770                            | -2.764                                | 200                   | 0.4936             | 1350                    | 3.3317               |                            | 0.0000                  | 1.061                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-19.227</b>                        |                       | <b>3.455</b>       |                         | <b>19.743</b>        |                            | <b>0.000</b>            | <b>6.690</b>                        |         |
| 3                 | 491.70                 | 42.331                            | -2.439                                | 200                   | 0.4936             | 1350                    | 3.3317               |                            | 0.0000                  | 1.386                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 4            | 490.80                 | 40.783                            | -1.548                                | 100                   | 0.2468             | 1000                    | 2.4679               |                            | 0.0000                  | 1.167                               |         |
| 5            | 490.50                 | 40.267                            | -0.516                                | 100                   | 0.2468             | 1000                    | 2.4679               |                            | 0.0000                  | 2.199                               |         |
| 6            | 493.00                 | 44.770                            | 4.503                                 | 100                   | 0.2468             | 800                     | 1.9743               |                            | 0.0000                  | 6.724                               |         |
| 7            | 495.00                 | 48.718                            | 3.948                                 | 100                   | 0.2468             | 800                     | 1.9743               |                            | 0.0000                  | 6.169                               |         |
| 8            | 495.90                 | 50.568                            | 1.850                                 | 100                   | 0.2468             | 800                     | 1.9743               |                            | 0.0000                  | 4.071                               |         |
| 9            | 495.60                 | 49.932                            | -0.636                                | 100                   | 0.2468             | 800                     | 1.9743               |                            | 0.0000                  | 1.585                               |         |
| <b>TOTAL</b> |                        |                                   | <b>5.162</b>                          |                       | <b>1.974</b>       |                         | <b>16.165</b>        |                            | <b>0.000</b>            | <b>23.301</b>                       |         |
| 10           | 495.20                 | 49.113                            | -0.819                                | 100                   | 0.2468             | 800                     | 1.9743               |                            | 0.0000                  | 1.402                               |         |
| 11           | 495.50                 | 49.720                            | 0.607                                 | 100                   | 0.2468             | 800                     | 1.9743               |                            | 0.0000                  | 2.828                               |         |
| 12           | 495.40                 | 49.310                            | -0.409                                | 100                   | 0.2468             | 800                     | 1.9743               |                            | 0.0000                  | 1.812                               |         |
| 13           | 495.00                 | 48.718                            | -0.592                                | 100                   | 0.2468             | 800                     | 1.9743               |                            | 0.0000                  | 1.629                               |         |
| 14           | 494.70                 | 48.126                            | -0.592                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 1.012                               |         |
| 15           | 494.30                 | 47.336                            | -0.790                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.814                               |         |
| 16           | 493.90                 | 46.546                            | -0.790                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.814                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-3.385</b>                         |                       | <b>2.098</b>       |                         | <b>11.599</b>        |                            | <b>0.000</b>            | <b>10.312</b>                       |         |
| 17           | 494.00                 | 46.744                            | 0.197                                 | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 1.802                               |         |
| 18           | 500.80                 | 63.997                            | 17.253                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 18.857                              |         |
| 19           | 502.00                 | 63.997                            | 0.000                                 | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 1.234                               |         |
| 20           | 501.00                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 21           | 500.60                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 22           | 500.40                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 23           | 500.50                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| <b>TOTAL</b> |                        |                                   | <b>17.451</b>                         |                       | <b>1.974</b>       |                         | <b>3.455</b>         |                            | <b>0.000</b>            | <b>22.880</b>                       |         |
| 24           | 500.40                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 25           | 500.50                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 26           | 501.30                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 27           | 502.10                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.370                               |         |
| 28           | 503.80                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 14287                      | 35.2588                 | 35.259                              |         |
| 29           | 501.50                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 3577                       | 8.8277                  | 8.828                               |         |
| 30           | 501.00                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1927                       | 4.7556                  | 4.756                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>1.111</b>       |                         | <b>0.000</b>         |                            | <b>48.842</b>           | <b>49.953</b>                       |         |
| 10-01-1995   | 500.80                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1388                       | 3.4254                  | 3.425                               |         |
| 2            | 500.60                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 706                        | 1.7423                  | 1.742                               |         |
| 3            | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498                        | 1.2290                  | 1.229                               |         |
| 4            | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498                        | 1.2290                  | 1.229                               |         |
| 5            | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498                        | 1.2290                  | 1.229                               |         |
| 6            | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498                        | 1.2290                  | 1.229                               |         |
| 7            | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 328                        | 0.8095                  | 0.809                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>10.893</b>           | <b>10.893</b>                       |         |
| 8            | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 328                        | 0.8095                  | 0.809                               |         |
| 9            | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 328                        | 0.8095                  | 0.809                               |         |
| 10           | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 328                        | 0.8095                  | 0.809                               |         |
| 11           | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 328                        | 0.8095                  | 0.809                               |         |
| 12           | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 328                        | 0.8095                  | 0.809                               |         |
| 13           | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 400                     | 0.9872               | 173                        | 0.4269                  | 1.414                               |         |
| 14           | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 400                     | 0.9872               | 173                        | 0.4269                  | 1.414                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>1.974</b>         |                            | <b>4.901</b>            | <b>6.876</b>                        |         |
| 15           | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             | 400                     | 0.9872               | 64.3                       | 0.1587                  | 1.146                               |         |
| 16           | 500.00                 | 63.997                            | 0.000                                 |                       | 0.0000             | 400                     | 0.9872               |                            | 0.0000                  | 0.987                               |         |
| 17           | 499.80                 | 62.844                            | -1.153                                |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 1.315                               |         |
| 18           | 499.30                 | 59.962                            | -2.882                                |                       | 0.0000             | 700                     | 1.7275               |                            | 0.0000                  | 0.000                               |         |
| 19           | 498.90                 | 57.657                            | -2.305                                |                       | 0.0000             | 700                     | 1.7275               |                            | 0.0000                  | 0.000                               |         |
| 20           | 498.60                 | 56.292                            | -1.365                                |                       | 0.0000             | 700                     | 1.7275               |                            | 0.0000                  | 0.363                               |         |
| 21           | 498.30                 | 55.656                            | -0.636                                |                       | 0.0000             | 700                     | 1.7275               |                            | 0.0000                  | 1.091                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-8.341</b>                         |                       | <b>0.000</b>       |                         | <b>11.352</b>        |                            | <b>0.159</b>            | <b>4.902</b>                        |         |
| 22           | 498.70                 | 56.504                            | 0.848                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.848                               |         |
| 23           | 499.20                 | 59.386                            | 2.882                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.882                               |         |
| 24           | 499.30                 | 59.962                            | 0.576                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.576                               |         |
| 25           | 499.40                 | 60.539                            | 0.576                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.576                               |         |
| 26           | 499.50                 | 61.115                            | 0.576                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.576                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 27                | 499.50                 | 61.115                            | 0.000                                 |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 2.468                               |         |
| 28                | 499.20                 | 59.386                            | -1.729                                |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 0.739                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>3.730</b>                          |                       | <b>0.000</b>       |                         | <b>4.936</b>         |                            | <b>0.000</b>            | <b>8.666</b>                        |         |
| 29                | 499.00                 | 58.233                            | -1.153                                |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 1.315                               |         |
| 30                | 499.00                 | 58.233                            | 0.000                                 |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 2.468                               |         |
| 31                | 498.80                 | 56.504                            | -1.729                                |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 0.739                               |         |
| <b>11-01-1995</b> | 497.00                 | 52.900                            | -3.604                                |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 496.60                 | 52.052                            | -0.848                                |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 1.620                               |         |
| 3                 | 496.00                 | 50.780                            | -1.272                                |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 1.196                               |         |
| 4                 | 495.50                 | 49.720                            | -1.060                                |                       | 0.0000             | 700                     | 1.7275               |                            | 0.0000                  | 0.667                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-9.666</b>                         |                       | <b>0.000</b>       |                         | <b>16.535</b>        |                            | <b>0.000</b>            | <b>8.005</b>                        |         |
| 5                 | 494.90                 | 48.521                            | -1.199                                |                       | 0.0000             | 700                     | 1.7275               |                            | 0.0000                  | 0.528                               |         |
| 6                 | 494.30                 | 47.336                            | -1.184                                |                       | 0.0000             | 500                     | 1.2339               |                            | 0.0000                  | 0.049                               |         |
| 7                 | 493.90                 | 46.546                            | -0.790                                |                       | 0.0000             | 500                     | 1.2339               |                            | 0.0000                  | 0.444                               |         |
| 8                 | 493.30                 | 45.362                            | -1.184                                |                       | 0.0000             | 500                     | 1.2339               |                            | 0.0000                  | 0.049                               |         |
| 9                 | 493.20                 | 45.165                            | -0.197                                |                       | 0.0000             | 500                     | 1.2339               |                            | 0.0000                  | 1.037                               |         |
| 10                | 495.10                 | 48.915                            | 3.751                                 |                       | 0.0000             | 500                     | 1.2339               |                            | 0.0000                  | 4.985                               |         |
| 11                | 499.00                 | 58.233                            | 9.318                                 |                       | 0.0000             | 500                     | 1.2339               |                            | 0.0000                  | 10.552                              |         |
| <b>TOTAL</b>      |                        |                                   | <b>8.514</b>                          |                       | <b>0.000</b>       |                         | <b>9.131</b>         |                            | <b>0.000</b>            | <b>17.645</b>                       |         |
| 12                | 499.80                 | 62.844                            | 4.611                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 4.611                               |         |
| 13                | 500.10                 | 63.997                            | 1.153                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 1.312                               |         |
| 14                | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 15                | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 16                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 17                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 18                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>5.764</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>1.489</b>            | <b>7.252</b>                        |         |
| 19                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 20                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 21                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 22                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 23                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 24                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 25                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>1.111</b>            | <b>1.111</b>                        |         |
| 26                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 27                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 28                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 29                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 30                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| <b>12-01-1995</b> | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 2                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>1.111</b>            | <b>1.111</b>                        |         |
| 3                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 4                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 5                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 6                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 7                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 8                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 9                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>1.111</b>            | <b>1.111</b>                        |         |
| 10                | 500.05                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 32.15                      | 0.0793                  | 0.079                               |         |
| 11                | 500.05                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 32.15                      | 0.0793                  | 0.079                               |         |
| 12                | 500.05                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 32.15                      | 0.0793                  | 0.079                               |         |
| 13                | 500.05                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 32.15                      | 0.0793                  | 0.079                               |         |
| 14                | 500.05                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 32.15                      | 0.0793                  | 0.079                               |         |
| 15                | 500.05                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 32.15                      | 0.0793                  | 0.079                               |         |
| 16                | 500.05                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 32.15                      | 0.0793                  | 0.079                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.555</b>            | <b>0.555</b>                        |         |
| 17                | 500.05                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 32.15                      | 0.0793                  | 0.079                               |         |



| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 18                | 500.05                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 32.15                      | 0.0793                  | 0.079                               |         |
| 19                | 500.05                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 32.15                      | 0.0793                  | 0.079                               |         |
| 20                | 500.05                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 32.15                      | 0.0793                  | 0.079                               |         |
| 21                | 500.05                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 32.15                      | 0.0793                  | 0.079                               |         |
| 22                | 500.05                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 32.15                      | 0.0793                  | 0.079                               |         |
| 23                | 500.00                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.476</b>            | <b>0.476</b>                        |         |
| 24                | 500.00                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                | 500.00                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26                | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 328                        | 0.8095                  | 0.810                               |         |
| 27                | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 328                        | 0.8095                  | 0.809                               |         |
| 28                | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 328                        | 0.8095                  | 0.809                               |         |
| 29                | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 328                        | 0.8095                  | 0.809                               |         |
| 30                | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 328                        | 0.8095                  | 0.809                               |         |
| 31                | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 328                        | 0.8095                  | 0.809                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>4.857</b>            | <b>4.857</b>                        |         |
| <b>01-01-1996</b> | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 2                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 3                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 4                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 5                 | 500.05                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 62.15                      | 0.1534                  | 0.153                               |         |
| 6                 | 500.05                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 32.15                      | 0.0793                  | 0.079                               |         |
| 7                 | 500.05                 | 63.997                            | 0.000                                 | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 0.617                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.123</b>       |                         | <b>0.494</b>         |                            | <b>0.867</b>            | <b>1.484</b>                        |         |
| 8                 | 500.00                 | 63.997                            | 0.000                                 | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 0.617                               |         |
| 9                 | 499.90                 | 62.844                            | -1.153                                | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 0.000                               |         |
| 10                | 499.70                 | 62.268                            | -0.576                                | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 0.041                               |         |
| 11                | 499.50                 | 61.115                            | -1.153                                | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 0.000                               |         |
| 12                | 499.30                 | 59.962                            | -1.153                                | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 0.000                               |         |
| 13                | 499.10                 | 58.810                            | -1.153                                | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 0.000                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 14                | 498.90                 | 57.657                            | -1.153                                | 50                    | 0.1234             | 300                     | 0.7404               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-6.340</b>                         |                       | <b>0.864</b>       |                         | <b>3.702</b>         |                            | <b>0.000</b>            | <b>0.658</b>                        |         |
| 15                | 498.70                 | 56.504                            | -1.153                                | 50                    | 0.1234             | 300                     | 0.7404               |                            | 0.0000                  | 0.000                               |         |
| 16                | 498.40                 | 55.868                            | -0.636                                | 50                    | 0.1234             | 530                     | 1.3080               |                            | 0.0000                  | 0.795                               |         |
| 17                | 498.20                 | 55.444                            | -0.424                                | 50                    | 0.1234             | 530                     | 1.3080               |                            | 0.0000                  | 1.007                               |         |
| 18                | 498.00                 | 55.020                            | -0.424                                | 50                    | 0.1234             | 530                     | 1.3080               |                            | 0.0000                  | 1.007                               |         |
| 19                | 497.50                 | 53.960                            | -1.060                                | 50                    | 0.1234             | 530                     | 1.3080               |                            | 0.0000                  | 0.371                               |         |
| 20                | 497.00                 | 52.900                            | -1.060                                | 50                    | 0.1234             | 530                     | 1.3080               |                            | 0.0000                  | 0.371                               |         |
| 21                | 496.50                 | 51.628                            | -1.272                                | 50                    | 0.1234             | 550                     | 1.3573               |                            | 0.0000                  | 0.209                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-6.029</b>                         |                       | <b>0.864</b>       |                         | <b>8.638</b>         |                            | <b>0.000</b>            | <b>3.761</b>                        |         |
| 22                | 496.00                 | 50.780                            | -0.848                                | 50                    | 0.1234             | 550                     | 1.3573               |                            | 0.0000                  | 0.633                               |         |
| 23                | 495.50                 | 49.720                            | -1.060                                | 50                    | 0.1234             | 550                     | 1.3573               |                            | 0.0000                  | 0.421                               |         |
| 24                | 494.80                 | 48.323                            | -1.396                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                | 494.70                 | 48.126                            | -0.197                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.049                               |         |
| 26                | 494.60                 | 47.928                            | -0.197                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.049                               |         |
| 27                | 494.60                 | 47.928                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 28                | 494.50                 | 47.731                            | -0.197                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.049                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-3.897</b>                         |                       | <b>1.481</b>       |                         | <b>2.715</b>         |                            | <b>0.000</b>            | <b>1.448</b>                        |         |
| 29                | 494.50                 | 47.731                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 30                | 494.50                 | 47.731                            | 0.000                                 | 100                   | 0.2468             | 250                     | 0.6170               |                            | 0.0000                  | 0.864                               |         |
| 31                | 494.20                 | 46.941                            | -0.790                                | 100                   | 0.2468             | 250                     | 0.6170               |                            | 0.0000                  | 0.074                               |         |
| <b>02-01-1996</b> | 494.00                 | 46.744                            | -0.197                                | 100                   | 0.2468             | 250                     | 0.6170               |                            | 0.0000                  | 0.666                               |         |
| 2                 | 493.60                 | 45.954                            | -0.790                                | 100                   | 0.2468             | 250                     | 0.6170               |                            | 0.0000                  | 0.074                               |         |
| 3                 | 493.20                 | 45.165                            | -0.790                                | 100                   | 0.2468             | 250                     | 0.6170               |                            | 0.0000                  | 0.074                               |         |
| 4                 | 492.80                 | 44.375                            | -0.790                                | 100                   | 0.2468             | 250                     | 0.6170               |                            | 0.0000                  | 0.074                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-3.356</b>                         |                       | <b>1.728</b>       |                         | <b>3.702</b>         |                            | <b>0.000</b>            | <b>2.073</b>                        |         |
| 5                 | 492.40                 | 43.585                            | -0.790                                | 100                   | 0.2468             | 250                     | 0.6170               |                            | 0.0000                  | 0.074                               |         |
| 6                 | 492.00                 | 42.675                            | -0.911                                | 100                   | 0.2468             | 250                     | 0.6170               |                            | 0.0000                  | 0.000                               |         |
| 7                 | 491.60                 | 42.159                            | -0.516                                | 100                   | 0.2468             | 250                     | 0.6170               |                            | 0.0000                  | 0.348                               |         |
| 8                 | 491.10                 | 41.299                            | -0.860                                | 100                   | 0.2468             | 250                     | 0.6170               |                            | 0.0000                  | 0.004                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 9                 | 490.80                 | 40.783                            | -0.516                                | 100                   | 0.2468             | 250                     | 0.6170               |                            | 0.0000                  | 0.348                               |         |
| 10                | 490.50                 | 40.267                            | -0.516                                | 100                   | 0.2468             | 250                     | 0.6170               |                            | 0.0000                  | 0.348                               |         |
| 11                | 490.20                 | 39.751                            | -0.516                                | 100                   | 0.2468             | 250                     | 0.6170               |                            | 0.0000                  | 0.348                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-4.624</b>                         |                       | <b>1.728</b>       |                         | <b>4.319</b>         |                            | <b>0.000</b>            | <b>1.469</b>                        |         |
| 12                | 489.70                 | 38.891                            | -0.860                                | 100                   | 0.2468             | 250                     | 0.6170               |                            | 0.0000                  | 0.004                               |         |
| 13                | 489.30                 | 38.203                            | -0.688                                | 100                   | 0.2468             | 250                     | 0.6170               |                            | 0.0000                  | 0.176                               |         |
| 14                | 488.80                 | 37.361                            | -0.842                                | 100                   | 0.2468             | 250                     | 0.6170               |                            | 0.0000                  | 0.022                               |         |
| 15                | 488.30                 | 36.593                            | -0.768                                | 100                   | 0.2468             | 250                     | 0.6170               |                            | 0.0000                  | 0.095                               |         |
| 16                | 488.20                 | 36.439                            | -0.154                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17                | 488.10                 | 36.286                            | -0.154                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18                | 488.00                 | 36.132                            | -0.154                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-3.619</b>                         |                       | <b>0.987</b>       |                         | <b>2.468</b>         |                            | <b>0.000</b>            | <b>0.297</b>                        |         |
| 19                | 487.90                 | 35.978                            | -0.154                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20                | 487.80                 | 35.825                            | -0.154                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21                | 487.70                 | 35.671                            | -0.154                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22                | 487.60                 | 35.517                            | -0.154                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23                | 487.50                 | 35.210                            | -0.307                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24                | 487.40                 | 35.210                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                | 487.30                 | 35.056                            | -0.154                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.076</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 26                | 488.40                 | 36.747                            | 1.690                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.690                               |         |
| 27                | 489.50                 | 38.547                            | 1.800                                 |                       | 0.0000             | 200                     | 0.4936               |                            | 0.0000                  | 2.294                               |         |
| 28                | 489.90                 | 39.235                            | 0.688                                 |                       | 0.0000             | 200                     | 0.4936               |                            | 0.0000                  | 1.182                               |         |
| 29                | 489.80                 | 38.891                            | -0.344                                |                       | 0.0000             | 200                     | 0.4936               |                            | 0.0000                  | 0.150                               |         |
| <b>03-01-1996</b> | 489.70                 | 38.891                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               |                            | 0.0000                  | 0.494                               |         |
| 2                 | 489.50                 | 38.547                            | -0.344                                |                       | 0.0000             | 200                     | 0.4936               |                            | 0.0000                  | 0.150                               |         |
| 3                 | 489.40                 | 38.375                            | -0.172                                |                       | 0.0000             | 200                     | 0.4936               |                            | 0.0000                  | 0.322                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>3.319</b>                          |                       | <b>0.000</b>       |                         | <b>2.961</b>         |                            | <b>0.000</b>            | <b>6.280</b>                        |         |
| 4                 | 489.20                 | 38.031                            | -0.344                                |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.000                               |         |
| 5                 | 489.10                 | 37.859                            | -0.172                                |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.075                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 6            | 489.00                 | 37.687                            | -0.172                                |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.075                               |         |
| 7            | 488.90                 | 37.515                            | -0.172                                |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.075                               |         |
| 8            | 488.70                 | 37.054                            | -0.461                                |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.000                               |         |
| 9            | 488.60                 | 37.054                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.247                               |         |
| 10           | 488.40                 | 36.747                            | -0.307                                |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-1.628</b>                         |                       | <b>0.000</b>       |                         | <b>1.728</b>         |                            | <b>0.000</b>            | <b>0.471</b>                        |         |
| 11           | 488.30                 | 36.593                            | -0.154                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.093                               |         |
| 12           | 488.10                 | 36.286                            | -0.307                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13           | 488.00                 | 36.132                            | -0.154                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.093                               |         |
| 14           | 488.00                 | 36.132                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 15           | 487.90                 | 35.978                            | -0.154                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.093                               |         |
| 16           | 487.80                 | 35.825                            | -0.154                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.093                               |         |
| 17           | 487.70                 | 35.671                            | -0.154                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.093                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-1.076</b>                         |                       | <b>1.728</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.712</b>                        |         |
| 18           | 487.60                 | 35.517                            | -0.154                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.093                               |         |
| 19           | 487.50                 | 35.210                            | -0.307                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20           | 487.50                 | 35.210                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 21           | 487.40                 | 35.210                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 22           | 487.40                 | 35.210                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 23           | 487.30                 | 35.056                            | -0.154                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.093                               |         |
| 24           | 487.30                 | 35.056                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-0.615</b>                         |                       | <b>1.481</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.927</b>                        |         |
| 25           | 487.20                 | 34.903                            | -0.154                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26           | 487.10                 | 34.749                            | -0.154                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27           | 487.10                 | 34.749                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28           | 487.00                 | 34.595                            | -0.154                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29           | 486.90                 | 34.442                            | -0.154                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30           | 486.80                 | 34.288                            | -0.154                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31           | 486.70                 | 34.134                            | -0.154                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-0.922</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 04-01-1996   | 486.60                 | 33.981                            | -0.154                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.019                               |         |
| 2            | 486.50                 | 33.827                            | -0.154                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.019                               |         |
| 3            | 486.40                 | 33.520                            | -0.307                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.000                               |         |
| 4            | 486.30                 | 33.520                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.173                               |         |
| 5            | 486.20                 | 33.366                            | -0.154                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6            | 486.10                 | 33.212                            | -0.154                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7            | 486.00                 | 33.059                            | -0.154                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-1.076</b>                         |                       | <b>0.000</b>       |                         | <b>0.691</b>         |                            | <b>0.000</b>            | <b>0.211</b>                        |         |
| 8            | 485.90                 | 32.905                            | -0.154                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9            | 485.80                 | 32.751                            | -0.154                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10           | 485.70                 | 32.598                            | -0.154                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11           | 485.60                 | 32.444                            | -0.154                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12           | 485.50                 | 32.307                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13           | 485.40                 | 32.171                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14           | 485.30                 | 31.898                            | -0.273                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-1.161</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 15           | 485.20                 | 31.898                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16           | 485.10                 | 31.761                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17           | 485.00                 | 31.625                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18           | 484.90                 | 31.488                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19           | 484.90                 | 31.488                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20           | 484.80                 | 31.352                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21           | 484.70                 | 31.215                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-0.683</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 22           | 484.60                 | 31.079                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23           | 484.50                 | 30.942                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24           | 484.40                 | 30.806                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25           | 484.30                 | 30.669                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26           | 484.30                 | 30.669                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27           | 484.20                 | 30.396                            | -0.273                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 28                | 484.20                 | 30.396                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.819</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 29                | 484.10                 | 30.396                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30                | 484.10                 | 30.396                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>05-01-1996</b> | 484.00                 | 30.260                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 484.00                 | 30.260                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 | 483.90                 | 30.123                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4                 | 483.80                 | 29.987                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5                 | 483.80                 | 29.987                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.410</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 6                 | 483.70                 | 29.850                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 | 483.60                 | 29.714                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8                 | 483.60                 | 29.714                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9                 | 483.50                 | 29.577                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10                | 483.50                 | 29.577                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11                | 483.40                 | 29.441                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12                | 483.40                 | 29.441                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.546</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 13                | 483.40                 | 29.441                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14                | 483.30                 | 29.304                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15                | 483.30                 | 29.304                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16                | 483.20                 | 29.168                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17                | 483.10                 | 28.895                            | -0.273                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18                | 483.10                 | 28.895                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19                | 483.00                 | 28.895                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.546</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 20                | 482.90                 | 28.758                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21                | 482.80                 | 28.622                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22                | 482.70                 | 28.485                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23                | 482.60                 | 28.349                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 24                | 482.50                 | 28.212                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                | 482.40                 | 28.076                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26                | 482.30                 | 27.939                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.956</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 27                | 482.20                 | 27.819                            | -0.120                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28                | 482.10                 | 27.698                            | -0.120                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29                | 482.00                 | 27.457                            | -0.241                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30                | 482.10                 | 27.698                            | 0.241                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.241                               |         |
| 31                | 482.20                 | 27.819                            | 0.120                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.120                               |         |
| <b>06-01-1996</b> | 482.10                 | 27.698                            | -0.120                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 482.40                 | 28.076                            | 0.377                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.377                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.137</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.739</b>                        |         |
| 3                 | 482.50                 | 28.212                            | 0.137                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.137                               |         |
| 4                 | 482.70                 | 28.485                            | 0.273                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.273                               |         |
| 5                 | 482.70                 | 28.485                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6                 | 482.70                 | 28.485                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 | 482.80                 | 28.622                            | 0.137                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.137                               |         |
| 8                 | 482.80                 | 28.622                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9                 | 482.80                 | 28.622                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.546</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.546</b>                        |         |
| 10                | 483.00                 | 28.895                            | 0.273                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.273                               |         |
| 11                | 483.10                 | 28.895                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12                | 483.10                 | 28.895                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13                | 483.10                 | 28.895                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14                | 483.10                 | 28.895                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15                | 483.00                 | 28.895                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16                | 483.00                 | 28.895                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.273</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.273</b>                        |         |
| 17                | 483.00                 | 28.895                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18                | 483.00                 | 28.895                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 19                | 483.00                 | 28.895                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20                | 484.30                 | 30.669                            | 1.775                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.775                               |         |
| 21                | 484.40                 | 30.806                            | 0.137                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.137                               |         |
| 22                | 484.40                 | 30.806                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23                | 484.50                 | 30.942                            | 0.137                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.137                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>2.048</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>2.048</b>                        |         |
| 24                | 487.30                 | 35.056                            | 4.114                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 4.114                               |         |
| 25                | 487.50                 | 35.210                            | 0.154                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.154                               |         |
| 26                | 487.50                 | 35.210                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27                | 487.60                 | 35.517                            | 0.307                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.307                               |         |
| 28                | 489.90                 | 39.235                            | 3.718                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 3.718                               |         |
| 29                | 490.90                 | 40.783                            | 1.548                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.548                               |         |
| 30                | 491.70                 | 42.331                            | 1.548                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.548                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>11.388</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>11.388</b>                       |         |
| <b>07-01-1996</b> | 492.10                 | 43.019                            | 0.688                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.688                               |         |
| 2                 | 492.10                 | 43.019                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 | 492.10                 | 43.019                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4                 | 492.20                 | 43.190                            | 0.172                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.172                               |         |
| 5                 | 492.30                 | 43.388                            | 0.197                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.197                               |         |
| 6                 | 492.90                 | 44.572                            | 1.184                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.184                               |         |
| 7                 | 493.20                 | 45.165                            | 0.592                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.592                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>2.834</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>2.834</b>                        |         |
| 8                 | 493.70                 | 46.152                            | 0.987                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.987                               |         |
| 9                 | 493.80                 | 46.349                            | 0.197                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.197                               |         |
| 10                | 494.00                 | 46.744                            | 0.395                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.395                               |         |
| 11                | 497.00                 | 52.900                            | 6.156                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 6.156                               |         |
| 12                | 498.80                 | 56.504                            | 3.604                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 3.604                               |         |
| 13                | 500.10                 | 63.997                            | 7.493                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 7.652                               |         |
| 14                | 500.50                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 694                        | 1.7127                  | 1.713                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>18.832</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>1.871</b>            | <b>20.704</b>                       |         |



| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 15                | 500.50                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 694                        | 1.7127                  | 1.713                               |         |
| 16                | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498                        | 1.2290                  | 1.229                               |         |
| 17                | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498                        | 1.2290                  | 1.229                               |         |
| 18                | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 328                        | 0.8095                  | 0.809                               |         |
| 19                | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498                        | 1.2290                  | 1.229                               |         |
| 20                | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498                        | 1.2290                  | 1.229                               |         |
| 21                | 500.80                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1388                       | 3.4254                  | 3.425                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>10.864</b>           | <b>10.864</b>                       |         |
| 22                | 500.50                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 694                        | 1.7127                  | 1.836                               |         |
| 23                | 500.80                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 1388                       | 3.4254                  | 3.549                               |         |
| 24                | 500.60                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 706                        | 1.7423                  | 1.866                               |         |
| 25                | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498                        | 1.2290                  | 1.229                               |         |
| 26                | 500.30                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 328                        | 0.8095                  | 1.056                               |         |
| 27                | 500.30                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 328                        | 0.8095                  | 1.056                               |         |
| 28                | 500.20                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 173                        | 0.4269                  | 0.797                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>1.234</b>       |                         | <b>0.000</b>         |                            | <b>10.155</b>           | <b>11.389</b>                       |         |
| 29                | 500.10                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.529                               |         |
| 30                | 499.70                 | 62.268                            | -1.729                                | 100                   | 0.2468             | 1000                    | 2.4679               |                            | 0.0000                  | 0.985                               |         |
| 31                | 499.00                 | 58.233                            | -4.035                                | 150                   | 0.3702             | 1000                    | 2.4679               |                            | 0.0000                  | 0.000                               |         |
| <b>08-01-1996</b> | 498.10                 | 55.232                            | -3.001                                | 150                   | 0.3702             | 1000                    | 2.4679               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 497.50                 | 53.960                            | -1.272                                | 150                   | 0.3702             | 1000                    | 2.4679               |                            | 0.0000                  | 1.566                               |         |
| 3                 | 497.00                 | 52.900                            | -1.060                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.901                               |         |
| 4                 | 496.50                 | 51.628                            | -1.272                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.689                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-12.369</b>                        |                       | <b>2.715</b>       |                         | <b>14.807</b>        |                            | <b>0.159</b>            | <b>6.671</b>                        |         |
| 5                 | 496.00                 | 50.780                            | -0.848                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 2.607                               |         |
| 6                 | 495.00                 | 48.718                            | -2.062                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 1.393                               |         |
| 7                 | 495.90                 | 50.568                            | 1.850                                 | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 5.305                               |         |
| 8                 | 499.30                 | 59.962                            | 9.395                                 | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 12.850                              |         |
| 9                 | 501.50                 | 63.997                            | 4.035                                 | 100                   | 0.2468             |                         | 0.0000               | 3577                       | 8.8277                  | 13.109                              |         |
| 10                | 501.00                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 1927                       | 4.7556                  | 5.002                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 11                | 500.60                 | 63.997                            | 0.000                                 | 1550                  | 3.8252             | 100                     | 0.2468               | 906                        | 2.2359                  | 6.308                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>12.369</b>                         |                       | <b>6.293</b>       |                         | <b>12.093</b>        |                            | <b>15.819</b>           | <b>46.574</b>                       |         |
| 12                | 500.30                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 100                     | 0.2468               | 328                        | 0.8095                  | 1.550                               |         |
| 13                | 500.20                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 100                     | 0.2468               | 173                        | 0.4269                  | 1.167                               |         |
| 14                | 500.50                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 100                     | 0.2468               | 694                        | 1.7127                  | 2.453                               |         |
| 15                | 500.90                 | 63.997                            | 0.000                                 | 250                   | 0.6170             | 100                     | 0.2468               | 1646                       | 4.0622                  | 4.926                               |         |
| 16                | 500.80                 | 63.997                            | 0.000                                 | 250                   | 0.6170             | 100                     | 0.2468               | 1388                       | 3.4254                  | 4.289                               |         |
| 17                | 500.50                 | 63.997                            | 0.000                                 | 250                   | 0.6170             | 100                     | 0.2468               | 694                        | 1.7127                  | 2.576                               |         |
| 18                | 500.90                 | 63.997                            | 0.000                                 | 250                   | 0.6170             | 100                     | 0.2468               | 1646                       | 4.0622                  | 4.926                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>3.949</b>       |                         | <b>1.728</b>         |                            | <b>16.212</b>           | <b>21.888</b>                       |         |
| 19                | 502.20                 | 63.997                            | 0.000                                 | 250                   | 0.6170             | 100                     | 0.2468               | 6237                       | 15.3923                 | 16.256                              |         |
| 20                | 501.60                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 100                     | 0.2468               | 3893                       | 9.6075                  | 10.348                              |         |
| 21                | 501.60                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 100                     | 0.2468               | 3893                       | 9.6075                  | 10.348                              |         |
| 22                | 501.00                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 100                     | 0.2468               | 1927                       | 4.7556                  | 5.496                               |         |
| 23                | 500.70                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 100                     | 0.2468               | 1137                       | 2.8060                  | 3.546                               |         |
| 24                | 501.80                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 100                     | 0.2468               | 4626                       | 11.4165                 | 12.157                              |         |
| 25                | 500.80                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 100                     | 0.2468               | 1388                       | 3.4254                  | 4.166                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>3.578</b>       |                         | <b>1.728</b>         |                            | <b>57.011</b>           | <b>62.317</b>                       |         |
| 26                | 500.50                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 100                     | 0.2468               | 694                        | 1.7127                  | 2.453                               |         |
| 27                | 500.50                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 100                     | 0.2468               | 694                        | 1.7127                  | 2.453                               |         |
| 28                | 500.40                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 100                     | 0.2468               | 498                        | 1.2290                  | 1.969                               |         |
| 29                | 500.40                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 100                     | 0.2468               | 498                        | 1.2290                  | 1.969                               |         |
| 30                | 500.30                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 100                     | 0.2468               | 328                        | 0.8095                  | 1.550                               |         |
| 31                | 500.70                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 100                     | 0.2468               | 1137                       | 2.8060                  | 3.546                               |         |
| <b>09-01-1996</b> | 500.80                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 100                     | 0.2468               | 1388                       | 3.4254                  | 4.166                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>3.455</b>       |                         | <b>1.728</b>         |                            | <b>12.924</b>           | <b>18.107</b>                       |         |
| 2                 | 501.40                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 100                     | 0.2468               | 3200                       | 7.8973                  | 8.638                               |         |
| 3                 | 500.80                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 100                     | 0.2468               | 1388                       | 3.4254                  | 4.166                               |         |
| 4                 | 500.80                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 100                     | 0.2468               | 1388                       | 3.4254                  | 4.166                               |         |
| 5                 | 501.00                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 100                     | 0.2468               | 1927                       | 4.7556                  | 5.496                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 6                 | 501.00                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 100                     | 0.2468               | 1927                       | 4.7556                  | 5.496                               |         |
| 7                 | 500.60                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 100                     | 0.2468               | 906                        | 2.2359                  | 2.976                               |         |
| 8                 | 500.40                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 100                     | 0.2468               | 498                        | 1.2290                  | 1.969                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>3.455</b>       |                         | <b>1.728</b>         |                            | <b>27.724</b>           | <b>32.907</b>                       |         |
| 9                 | 500.40                 | 63.997                            | 0.000                                 | 250                   | 0.6170             | 100                     | 0.2468               | 498                        | 1.2290                  | 2.093                               |         |
| 10                | 500.50                 | 63.997                            | 0.000                                 | 250                   | 0.6170             | 100                     | 0.2468               | 694                        | 1.7127                  | 2.576                               |         |
| 11                | 500.60                 | 63.997                            | 0.000                                 | 250                   | 0.6170             | 100                     | 0.2468               | 906                        | 2.2359                  | 3.100                               |         |
| 12                | 500.00                 | 63.997                            | 0.000                                 | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 3.085                               |         |
| 13                | 499.40                 | 60.539                            | -3.458                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 0.000                               |         |
| 14                | 498.90                 | 57.657                            | -2.882                                |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 0.000                               |         |
| 15                | 498.60                 | 56.292                            | -1.365                                |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 1.103                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-7.705</b>                         |                       | <b>3.085</b>       |                         | <b>10.612</b>        |                            | <b>5.178</b>            | <b>11.957</b>                       |         |
| 16                | 498.30                 | 55.656                            | -0.636                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 2.449                               |         |
| 17                | 498.00                 | 55.020                            | -0.636                                |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 1.832                               |         |
| 18                | 497.60                 | 53.960                            | -1.060                                | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 2.518                               |         |
| 19                | 496.70                 | 52.264                            | -1.696                                | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 1.882                               |         |
| 20                | 495.40                 | 49.310                            | -2.954                                | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 0.625                               |         |
| 21                | 494.30                 | 47.336                            | -1.974                                | 250                   | 0.6170             | 1300                    | 3.2083               |                            | 0.0000                  | 1.851                               |         |
| 22                | 493.00                 | 44.770                            | -2.566                                | 250                   | 0.6170             | 1300                    | 3.2083               |                            | 0.0000                  | 1.259                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-11.522</b>                        |                       | <b>3.702</b>       |                         | <b>20.237</b>        |                            | <b>0.000</b>            | <b>12.416</b>                       |         |
| 23                | 493.30                 | 45.362                            | 0.592                                 | 250                   | 0.6170             | 1350                    | 3.3317               |                            | 0.0000                  | 4.541                               |         |
| 24                | 492.80                 | 44.375                            | -0.987                                | 250                   | 0.6170             | 1350                    | 3.3317               |                            | 0.0000                  | 2.962                               |         |
| 25                | 492.30                 | 43.388                            | -0.987                                | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 2.591                               |         |
| 26                | 492.10                 | 43.019                            | -0.369                                | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 3.209                               |         |
| 27                | 491.50                 | 41.987                            | -1.032                                | 250                   | 0.6170             | 1350                    | 3.3317               |                            | 0.0000                  | 2.917                               |         |
| 28                | 491.00                 | 41.127                            | -0.860                                | 250                   | 0.6170             | 1350                    | 3.3317               |                            | 0.0000                  | 3.089                               |         |
| 29                | 490.40                 | 40.095                            | -1.032                                | 250                   | 0.6170             | 1350                    | 3.3317               |                            | 0.0000                  | 2.917                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-4.675</b>                         |                       | <b>4.319</b>       |                         | <b>22.581</b>        |                            | <b>0.000</b>            | <b>22.225</b>                       |         |
| 30                | 489.90                 | 39.235                            | -0.860                                | 250                   | 0.6170             | 1350                    | 3.3317               |                            | 0.0000                  | 3.089                               |         |
| <b>10-01-1996</b> | 489.60                 | 38.719                            | -0.516                                | 250                   | 0.6170             | 600                     | 1.4807               |                            | 0.0000                  | 1.582                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 2            | 489.10                 | 37.859                            | -0.860                                | 250                   | 0.6170             | 600                     | 1.4807               |                            | 0.0000                  | 1.238                               |         |
| 3            | 488.60                 | 37.054                            | -0.805                                | 250                   | 0.6170             | 600                     | 1.4807               |                            | 0.0000                  | 1.293                               |         |
| 4            | 488.40                 | 36.747                            | -0.307                                | 250                   | 0.6170             | 600                     | 1.4807               |                            | 0.0000                  | 1.790                               |         |
| 5            | 487.80                 | 35.825                            | -0.922                                | 250                   | 0.6170             | 600                     | 1.4807               |                            | 0.0000                  | 1.176                               |         |
| 6            | 487.70                 | 35.671                            | -0.154                                | 250                   | 0.6170             | 600                     | 1.4807               |                            | 0.0000                  | 1.944                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-4.424</b>                         |                       | <b>4.319</b>       |                         | <b>12.216</b>        |                            | <b>0.000</b>            | <b>12.111</b>                       |         |
| 7            | 487.60                 | 35.517                            | -0.154                                | 250                   | 0.6170             | 600                     | 1.4807               |                            | 0.0000                  | 1.944                               |         |
| 8            | 487.10                 | 34.749                            | -0.768                                | 250                   | 0.6170             | 600                     | 1.4807               |                            | 0.0000                  | 1.329                               |         |
| 9            | 486.50                 | 33.827                            | -0.922                                | 250                   | 0.6170             | 600                     | 1.4807               |                            | 0.0000                  | 1.176                               |         |
| 10           | 485.60                 | 32.444                            | -1.383                                | 250                   | 0.6170             | 600                     | 1.4807               |                            | 0.0000                  | 0.715                               |         |
| 11           | 484.70                 | 31.215                            | -1.229                                | 250                   | 0.6170             | 600                     | 1.4807               |                            | 0.0000                  | 0.869                               |         |
| 12           | 483.90                 | 30.123                            | -1.092                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 1.993                               |         |
| 13           | 482.80                 | 28.622                            | -1.502                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 1.583                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-7.049</b>                         |                       | <b>4.319</b>       |                         | <b>12.339</b>        |                            | <b>0.000</b>            | <b>9.609</b>                        |         |
| 14           | 481.30                 | 26.734                            | -1.887                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 1.198                               |         |
| 15           | 479.80                 | 24.927                            | -1.807                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 1.278                               |         |
| 16           | 478.70                 | 23.647                            | -1.281                                | 250                   | 0.6170             | 600                     | 1.4807               |                            | 0.0000                  | 0.817                               |         |
| 17           | 477.50                 | 22.380                            | -1.267                                | 250                   | 0.6170             | 1300                    | 3.2083               |                            | 0.0000                  | 2.558                               |         |
| 18           | 475.50                 | 20.290                            | -2.090                                | 250                   | 0.6170             | 1300                    | 3.2083               |                            | 0.0000                  | 1.735                               |         |
| 19           | 473.00                 | 17.922                            | -2.368                                | 250                   | 0.6170             | 1300                    | 3.2083               |                            | 0.0000                  | 1.458                               |         |
| 20           | 470.00                 | 15.468                            | -2.454                                | 250                   | 0.6170             | 1300                    | 3.2083               |                            | 0.0000                  | 1.371                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-13.154</b>                        |                       | <b>4.319</b>       |                         | <b>19.250</b>        |                            | <b>0.000</b>            | <b>10.414</b>                       |         |
| 21           | 467.50                 | 13.682                            | -1.786                                | 250                   | 0.6170             | 1300                    | 3.2083               |                            | 0.0000                  | 2.040                               |         |
| 22           | 464.80                 | 11.966                            | -1.716                                | 250                   | 0.6170             | 1300                    | 3.2083               |                            | 0.0000                  | 2.109                               |         |
| 23           | 462.00                 | 10.414                            | -1.553                                | 250                   | 0.6170             | 1300                    | 3.2083               |                            | 0.0000                  | 2.273                               |         |
| 24           | 459.70                 | 9.304                             | -1.109                                | 250                   | 0.6170             | 1300                    | 3.2083               |                            | 0.0000                  | 2.716                               |         |
| 25           | 456.50                 | 7.951                             | -1.353                                | 250                   | 0.6170             | 1300                    | 3.2083               |                            | 0.0000                  | 2.472                               |         |
| 26           | 453.30                 | 6.854                             | -1.097                                | 250                   | 0.6170             | 1300                    | 3.2083               |                            | 0.0000                  | 2.728                               |         |
| 27           | 450.00                 | 5.917                             | -0.936                                | 250                   | 0.6170             | 1300                    | 3.2083               |                            | 0.0000                  | 2.889                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-9.550</b>                         |                       | <b>4.319</b>       |                         | <b>22.458</b>        |                            | <b>0.000</b>            | <b>17.226</b>                       |         |

| Date              | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 28                | 442.00                 | 3.937                             | -1.980                                | 250                   | 0.6170             | 1300                    | 3.2083               |                            | 0.0000                  | 1.845                               |         |
| 29                | 435.00                 | 2.267                             | -1.670                                | 250                   | 0.6170             | 550                     | 1.3573               |                            | 0.0000                  | 0.304                               |         |
| 30                | 430.00                 | 1.120                             | -1.147                                | 150                   | 0.3702             | 450                     | 1.1106               |                            | 0.0000                  | 0.334                               |         |
| 31                | 428.05                 | 0.671                             | -0.449                                | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 0.168                               |         |
| <b>11-01-1996</b> | 424.00                 | 0.000                             | -0.671                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 424.10                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 | 424.40                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-5.917</b>                         |                       | <b>1.728</b>       |                         | <b>6.170</b>         |                            | <b>0.000</b>            | <b>2.651</b>                        |         |
| 4                 | 424.80                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6                 | 425.30                 | 0.026                             | 0.026                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.026                               |         |
| 7                 | 425.60                 | 0.103                             | 0.077                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.077                               |         |
| 8                 | 425.80                 | 0.155                             | 0.052                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.052                               |         |
| 9                 | 426.10                 | 0.232                             | 0.077                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.077                               |         |
| 10                | 426.50                 | 0.336                             | 0.103                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.103                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.336</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.336</b>                        |         |
| 11                | 426.80                 | 0.403                             | 0.067                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.067                               |         |
| 12                | 427.00                 | 0.448                             | 0.045                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.045                               |         |
| 13                | 427.30                 | 0.492                             | 0.045                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.045                               |         |
| 14                | 427.60                 | 0.582                             | 0.090                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.090                               |         |
| 15                | 427.80                 | 0.627                             | 0.045                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.045                               |         |
| 16                | 427.90                 | 0.649                             | 0.022                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.022                               |         |
| 17                | 428.20                 | 0.716                             | 0.067                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.067                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.381</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.381</b>                        |         |
| 18                | 428.40                 | 0.739                             | 0.022                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.022                               |         |
| 19                | 428.45                 | 0.739                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20                | 429.10                 | 0.918                             | 0.179                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.179                               |         |
| 21                | 429.30                 | 0.963                             | 0.045                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.045                               |         |
| 22                | 429.50                 | 0.985                             | 0.022                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.022                               |         |
| 23                | 429.80                 | 1.075                             | 0.090                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.090                               |         |

| Date              | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 24                | 429.90                 | 1.097                             | 0.023                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.023                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.381</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.381</b>                        |         |
| 25                | 430.10                 | 1.143                             | 0.046                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.046                               |         |
| 26                | 430.80                 | 1.302                             | 0.160                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.160                               |         |
| 27                | 431.20                 | 1.394                             | 0.091                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.091                               |         |
| 28                | 431.80                 | 1.508                             | 0.114                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.114                               |         |
| 29                | 432.50                 | 1.690                             | 0.182                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.182                               |         |
| 30                | 433.10                 | 1.827                             | 0.137                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.137                               |         |
| <b>12-01-1996</b> | 433.30                 | 1.873                             | 0.046                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.046                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.776</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.776</b>                        |         |
| 2                 | 433.80                 | 1.989                             | 0.116                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.116                               |         |
| 3                 | 434.20                 | 2.081                             | 0.093                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.093                               |         |
| 4                 | 434.60                 | 2.174                             | 0.093                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.093                               |         |
| 5                 | 434.90                 | 2.244                             | 0.070                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.070                               |         |
| 6                 | 435.20                 | 2.313                             | 0.070                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.070                               |         |
| 7                 | 435.60                 | 2.406                             | 0.093                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.093                               |         |
| 8                 | 435.95                 | 2.475                             | 0.070                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.070                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.603</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.603</b>                        |         |
| 9                 | 436.20                 | 2.522                             | 0.046                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.046                               |         |
| 10                | 436.80                 | 2.686                             | 0.164                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.164                               |         |
| 11                | 437.40                 | 2.827                             | 0.141                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.141                               |         |
| 12                | 438.90                 | 3.181                             | 0.354                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.354                               |         |
| 13                | 439.50                 | 3.322                             | 0.141                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.141                               |         |
| 14                | 440.40                 | 3.542                             | 0.220                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.220                               |         |
| 15                | 441.50                 | 3.814                             | 0.272                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.272                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>1.338</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.338</b>                        |         |
| 16                | 442.00                 | 3.937                             | 0.124                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.124                               |         |
| 17                | 442.50                 | 4.061                             | 0.124                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.124                               |         |
| 18                | 442.90                 | 4.160                             | 0.099                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.099                               |         |
| 19                | 443.00                 | 4.160                             | 0.000                                 |                       | 0.0000             | 5                       | 0.0123               |                            | 0.0000                  | 0.012                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 20                | 443.10                 | 4.208                             | 0.049                                 |                       | 0.0000             | 5                       | 0.0123               |                            | 0.0000                  | 0.061                               |         |
| 21                | 443.20                 | 4.233                             | 0.024                                 |                       | 0.0000             | 5                       | 0.0123               |                            | 0.0000                  | 0.037                               |         |
| 22                | 443.30                 | 4.257                             | 0.024                                 |                       | 0.0000             | 5                       | 0.0123               |                            | 0.0000                  | 0.037                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.443</b>                          |                       | <b>0.000</b>       |                         | <b>0.049</b>         |                            | <b>0.000</b>            | <b>0.493</b>                        |         |
| 23                | 443.50                 | 4.306                             | 0.049                                 |                       | 0.0000             | 5                       | 0.0123               |                            | 0.0000                  | 0.061                               |         |
| 24                | 443.50                 | 4.306                             | 0.000                                 |                       | 0.0000             | 5                       | 0.0123               |                            | 0.0000                  | 0.012                               |         |
| 25                | 443.65                 | 4.330                             | 0.024                                 | 100                   | 0.2468             | 5                       | 0.0123               |                            | 0.0000                  | 0.283                               |         |
| 26                | 443.50                 | 4.306                             | -0.024                                | 100                   | 0.2468             | 5                       | 0.0123               |                            | 0.0000                  | 0.235                               |         |
| 27                | 443.00                 | 4.160                             | -0.146                                | 100                   | 0.2468             | 5                       | 0.0123               |                            | 0.0000                  | 0.113                               |         |
| 28                | 442.60                 | 4.086                             | -0.074                                | 100                   | 0.2468             | 5                       | 0.0123               |                            | 0.0000                  | 0.185                               |         |
| 29                | 442.00                 | 3.937                             | -0.148                                | 100                   | 0.2468             | 5                       | 0.0123               |                            | 0.0000                  | 0.111                               |         |
| 30                | 441.50                 | 3.814                             | -0.124                                | 100                   | 0.2468             | 5                       | 0.0123               |                            | 0.0000                  | 0.136                               |         |
| 31                | 440.10                 | 3.468                             | -0.346                                | 100                   | 0.2468             | 5                       | 0.0123               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.789</b>                         |                       | <b>1.728</b>       |                         | <b>0.111</b>         |                            | <b>0.000</b>            | <b>1.136</b>                        |         |
| <b>01-01-1997</b> | 439.30                 | 3.275                             | -0.193                                | 100                   | 0.2468             | 5                       | 0.0123               |                            | 0.0000                  | 0.066                               |         |
| 2                 | 438.80                 | 3.157                             | -0.118                                | 100                   | 0.2468             | 5                       | 0.0123               |                            | 0.0000                  | 0.141                               |         |
| 3                 | 438.00                 | 2.968                             | -0.189                                | 100                   | 0.2468             | 5                       | 0.0123               |                            | 0.0000                  | 0.071                               |         |
| 4                 | 437.50                 | 2.851                             | -0.118                                | 100                   | 0.2468             | 5                       | 0.0123               |                            | 0.0000                  | 0.141                               |         |
| 5                 | 437.30                 | 2.780                             | -0.071                                | 100                   | 0.2468             | 5                       | 0.0123               |                            | 0.0000                  | 0.188                               |         |
| 6                 | 436.90                 | 2.709                             | -0.071                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 | 437.20                 | 2.780                             | 0.071                                 |                       | 0.0000             | 5                       | 0.0123               |                            | 0.0000                  | 0.083                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.688</b>                         |                       | <b>1.234</b>       |                         | <b>0.074</b>         |                            | <b>0.000</b>            | <b>0.691</b>                        |         |
| 8                 | 437.70                 | 2.898                             | 0.118                                 |                       | 0.0000             | 5                       | 0.0123               |                            | 0.0000                  | 0.130                               |         |
| 9                 | 438.00                 | 2.968                             | 0.071                                 |                       | 0.0000             | 5                       | 0.0123               |                            | 0.0000                  | 0.083                               |         |
| 10                | 438.00                 | 2.968                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11                | 438.00                 | 2.968                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12                | 438.00                 | 2.968                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13                | 438.00                 | 2.968                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14                | 438.00                 | 2.968                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.189</b>                          |                       | <b>0.000</b>       |                         | <b>0.025</b>         |                            | <b>0.000</b>            | <b>0.213</b>                        |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 15                | 438.00                 | 2.968                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16                | 438.00                 | 2.968                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17                | 438.00                 | 2.968                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18                | 438.00                 | 2.968                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19                | 438.00                 | 2.968                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20                | 438.00                 | 2.968                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21                | 438.00                 | 2.968                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 22                | 438.00                 | 2.968                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23                | 438.00                 | 2.968                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24                | 438.00                 | 2.968                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                | 438.00                 | 2.968                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26                | 438.00                 | 2.968                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27                | 438.00                 | 2.968                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28                | 438.00                 | 2.968                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 29                | 438.00                 | 2.968                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30                | 438.00                 | 2.968                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31                | 438.00                 | 2.968                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>02-01-1997</b> | 438.20                 | 3.016                             | 0.047                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.047                               |         |
| 2                 | 438.25                 | 3.016                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 | 438.30                 | 3.039                             | 0.024                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.024                               |         |
| 4                 | 439.00                 | 3.204                             | 0.165                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.165                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.236</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.236</b>                        |         |
| 5                 | 439.60                 | 3.322                             | 0.118                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.118                               |         |
| 6                 | 440.00                 | 3.443                             | 0.121                                 | 150                   | 0.3702             | 200                     | 0.4936               |                            | 0.0000                  | 0.985                               |         |
| 7                 | 439.00                 | 3.204                             | -0.239                                | 150                   | 0.3702             | 200                     | 0.4936               |                            | 0.0000                  | 0.625                               |         |
| 8                 | 438.00                 | 2.968                             | -0.236                                | 150                   | 0.3702             | 200                     | 0.4936               |                            | 0.0000                  | 0.628                               |         |
| 9                 | 437.00                 | 2.733                             | -0.236                                | 150                   | 0.3702             | 200                     | 0.4936               |                            | 0.0000                  | 0.628                               |         |
| 10                | 436.00                 | 2.499                             | -0.234                                | 150                   | 0.3702             | 200                     | 0.4936               |                            | 0.0000                  | 0.630                               |         |



| Date              | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 11                | 435.00                 | 2.267                             | -0.232                                | 150                   | 0.3702             | 200                     | 0.4936               |                            | 0.0000                  | 0.632                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.937</b>                         |                       | <b>2.221</b>       |                         | <b>2.961</b>         |                            | <b>0.000</b>            | <b>4.245</b>                        |         |
| 12                | 434.00                 | 2.012                             | -0.255                                | 150                   | 0.3702             | 200                     | 0.4936               |                            | 0.0000                  | 0.609                               |         |
| 13                | 430.00                 | 1.120                             | -0.892                                | 100                   | 0.2468             | 100                     | 0.2468               |                            | 0.0000                  | 0.000                               |         |
| 14                | 428.00                 | 0.671                             | -0.449                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15                | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16                | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17                | 427.00                 | 0.448                             | -0.224                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18                | 425.00                 | 0.000                             | -0.448                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-2.267</b>                         |                       | <b>0.617</b>       |                         | <b>0.740</b>         |                            | <b>0.000</b>            | <b>0.609</b>                        |         |
| 19                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 26                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>03-01-1997</b> | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 5                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 9                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 12                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 19                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 26                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>04-01-1997</b> | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 2                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date         | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 4            | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5            | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6            | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7            | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8            | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 9            | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 16           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 23           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29           | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |

| Date              | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 30                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>05-01-1997</b> | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 7                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 14                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 21                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 27                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 28                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>06-01-1997</b> | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 4                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9                 | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 11                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12                | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13                | 426.00                 | 0.207                             | 0.207                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.207                               |         |
| 14                | 426.00                 | 0.207                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15                | 427.00                 | 0.448                             | 0.241                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.241                               |         |
| 16                | 427.00                 | 0.448                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17                | 428.00                 | 0.671                             | 0.224                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.224                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.671</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.671</b>                        |         |
| 18                | 430.00                 | 1.120                             | 0.449                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.449                               |         |
| 19                | 432.00                 | 1.576                             | 0.456                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.456                               |         |
| 20                | 433.00                 | 1.804                             | 0.228                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.228                               |         |
| 21                | 434.00                 | 2.012                             | 0.208                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.208                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 22                | 435.00                 | 2.267                             | 0.255                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.255                               |         |
| 23                | 436.00                 | 2.499                             | 0.232                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.232                               |         |
| 24                | 437.50                 | 2.851                             | 0.352                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.352                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>2.179</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>2.179</b>                        |         |
| 25                | 437.60                 | 2.874                             | 0.024                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.024                               |         |
| 26                | 438.00                 | 2.968                             | 0.094                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.094                               |         |
| 27                | 439.00                 | 3.204                             | 0.236                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.236                               |         |
| 28                | 440.00                 | 3.443                             | 0.239                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.239                               |         |
| 29                | 441.00                 | 3.690                             | 0.247                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 30                | 442.00                 | 3.937                             | 0.247                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| <b>07-01-1997</b> | 445.00                 | 4.671                             | 0.734                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.734                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>1.820</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.820</b>                        |         |
| 2                 | 448.00                 | 5.409                             | 0.738                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.738                               |         |
| 3                 | 450.00                 | 5.917                             | 0.509                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.509                               |         |
| 4                 | 460.00                 | 9.449                             | 3.532                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 3.532                               |         |
| 5                 | 465.00                 | 12.081                            | 2.632                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.632                               |         |
| 6                 | 470.00                 | 15.468                            | 3.387                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 3.387                               |         |
| 7                 | 475.00                 | 19.816                            | 4.348                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 4.348                               |         |
| 8                 | 478.00                 | 22.908                            | 3.091                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 3.091                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>18.236</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>18.236</b>                       |         |
| 9                 | 480.00                 | 25.168                            | 2.261                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.261                               |         |
| 10                | 487.30                 | 35.056                            | 9.888                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 9.888                               |         |
| 11                | 490.40                 | 40.095                            | 5.038                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 5.038                               |         |
| 12                | 493.70                 | 46.152                            | 6.057                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 6.057                               |         |
| 13                | 499.30                 | 59.962                            | 13.811                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 13.811                              |         |
| 14                | 501.00                 | 63.997                            | 4.035                                 |                       | 0.0000             |                         | 0.0000               | 2227                       | 5.4960                  | 9.531                               |         |
| 15                | 500.80                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1782                       | 4.3978                  | 4.398                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>41.089</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>9.894</b>            | <b>50.983</b>                       |         |
| 16                | 500.80                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1782                       | 4.3978                  | 4.398                               |         |
| 17                | 500.70                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1437                       | 3.5464                  | 3.546                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 18                | 500.90                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1996                       | 4.9259                  | 4.926                               |         |
| 19                | 500.60                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 906                        | 2.2359                  | 2.236                               |         |
| 20                | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498                        | 1.2290                  | 1.229                               |         |
| 21                | 500.50                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 694                        | 1.7127                  | 1.713                               |         |
| 22                | 502.00                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 5450                       | 13.4500                 | 13.450                              |         |
| 22                | 503.00                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 8450                       | 20.8537                 | 20.854                              |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>52.351</b>           | <b>52.351</b>                       |         |
| 23                | 502.40                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 7128                       | 17.5912                 | 17.838                              |         |
| 24                | 501.00                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 1927                       | 4.7556                  | 5.002                               |         |
| 25                | 500.60                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 906                        | 2.2359                  | 2.606                               |         |
| 26                | 500.50                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 694                        | 1.7127                  | 2.083                               |         |
| 27                | 500.40                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 498                        | 1.2290                  | 1.599                               |         |
| 28                | 500.40                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 498                        | 1.2290                  | 1.723                               |         |
| 29                | 500.30                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 308                        | 0.7601                  | 1.254                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>2.591</b>       |                         | <b>0.000</b>         |                            | <b>29.514</b>           | <b>32.105</b>                       |         |
| 30                | 500.20                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 173                        | 0.4269                  | 0.921                               |         |
| 31                | 500.00                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 3.455                               |         |
| <b>08-01-1997</b> | 499.30                 | 59.962                            | -4.035                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 498.70                 | 56.504                            | -3.458                                |                       | 0.0000             | 1200                    | 2.9615               |                            | 0.0000                  | 0.000                               |         |
| 3                 | 498.90                 | 57.657                            | 1.153                                 | 50                    | 0.1234             | 1200                    | 2.9615               |                            | 0.0000                  | 4.238                               |         |
| 4                 | 498.90                 | 57.657                            | 0.000                                 | 100                   | 0.2468             | 1200                    | 2.9615               |                            | 0.0000                  | 3.208                               |         |
| 5                 | 499.10                 | 58.810                            | 1.153                                 | 150                   | 0.3702             | 1200                    | 2.9615               |                            | 0.0000                  | 4.484                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-5.187</b>                         |                       | <b>2.221</b>       |                         | <b>17.769</b>        |                            | <b>0.427</b>            | <b>16.306</b>                       |         |
| 6                 | 499.00                 | 58.233                            | -0.576                                | 150                   | 0.3702             | 1200                    | 2.9615               |                            | 0.0000                  | 2.755                               |         |
| 7                 | 498.90                 | 57.657                            | -0.576                                | 150                   | 0.3702             | 1200                    | 2.9615               |                            | 0.0000                  | 2.755                               |         |
| 8                 | 498.60                 | 56.292                            | -1.365                                | 150                   | 0.3702             | 800                     | 1.9743               |                            | 0.0000                  | 0.980                               |         |
| 9                 | 498.00                 | 55.020                            | -1.272                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 1.196                               |         |
| 10                | 497.60                 | 53.960                            | -1.060                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 1.408                               |         |
| 11                | 498.10                 | 55.232                            | 1.272                                 | 200                   | 0.4936             | 1100                    | 2.7147               |                            | 0.0000                  | 4.480                               |         |
| 12                | 498.10                 | 55.232                            | 0.000                                 | 200                   | 0.4936             | 1100                    | 2.7147               |                            | 0.0000                  | 3.208                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b>      |                        |                                   | <b>-3.578</b>                         |                       | <b>3.085</b>       |                         | <b>17.275</b>        |                            | <b>0.000</b>            | <b>16.783</b>                       |         |
| 13                | 498.60                 | 56.292                            | 1.060                                 | 200                   | 0.4936             | 1100                    | 2.7147               |                            | 0.0000                  | 4.268                               |         |
| 14                | 498.80                 | 56.504                            | 0.212                                 | 200                   | 0.4936             | 1100                    | 2.7147               |                            | 0.0000                  | 3.420                               |         |
| 15                | 499.00                 | 58.233                            | 1.729                                 | 100                   | 0.2468             | 700                     | 1.7275               |                            | 0.0000                  | 3.703                               |         |
| 16                | 500.10                 | 63.997                            | 5.764                                 | 70                    | 0.1728             |                         | 0.0000               | 64.3                       | 0.1587                  | 6.095                               |         |
| 17                | 500.60                 | 63.997                            | 0.000                                 | 70                    | 0.1728             |                         | 0.0000               | 906                        | 2.2359                  | 2.409                               |         |
| 18                | 501.60                 | 63.997                            | 0.000                                 | 70                    | 0.1728             |                         | 0.0000               | 3893                       | 9.6075                  | 9.780                               |         |
| 19                | 501.00                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 1927                       | 4.7556                  | 5.126                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>8.765</b>                          |                       | <b>2.122</b>       |                         | <b>7.157</b>         |                            | <b>16.758</b>           | <b>34.802</b>                       |         |
| 20                | 500.60                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 906                        | 2.2359                  | 2.606                               |         |
| 21                | 500.50                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 694                        | 1.7127                  | 2.083                               |         |
| 22                | 500.50                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 694                        | 1.7127                  | 2.206                               |         |
| 23                | 500.40                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 498                        | 1.2290                  | 1.723                               |         |
| 24                | 500.40                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 498                        | 1.2290                  | 1.846                               |         |
| 25                | 500.30                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 308                        | 0.7601                  | 1.377                               |         |
| 26                | 500.20                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 173                        | 0.4269                  | 1.044                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>3.578</b>       |                         | <b>0.000</b>         |                            | <b>9.306</b>            | <b>12.885</b>                       |         |
| 27                | 500.10                 | 63.997                            | 0.000                                 | 250                   | 0.6170             | 1200                    | 2.9615               | 64.3                       | 0.1587                  | 3.737                               |         |
| 28                | 499.90                 | 62.844                            | -1.153                                | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 2.426                               |         |
| 29                | 500.60                 | 63.997                            | 1.153                                 | 250                   | 0.6170             | 1200                    | 2.9615               | 906                        | 2.2359                  | 6.967                               |         |
| 30                | 500.70                 | 63.997                            | 0.000                                 | 250                   | 0.6170             | 1000                    | 2.4679               | 1137                       | 2.8060                  | 5.891                               |         |
| 31                | 500.40                 | 63.997                            | 0.000                                 | 250                   | 0.6170             | 1000                    | 2.4679               | 498                        | 1.2290                  | 4.314                               |         |
| <b>09-01-1997</b> | 500.40                 | 63.997                            | 0.000                                 | 250                   | 0.6170             | 1000                    | 2.4679               | 498                        | 1.2290                  | 4.314                               |         |
| 2                 | 500.20                 | 63.997                            | 0.000                                 | 250                   | 0.6170             | 1000                    | 2.4679               | 173                        | 0.4269                  | 3.512                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>4.319</b>       |                         | <b>18.756</b>        |                            | <b>8.086</b>            | <b>31.160</b>                       |         |
| 3                 | 500.10                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.776                               |         |
| 4                 | 499.70                 | 62.268                            | -1.729                                | 250                   | 0.6170             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5                 | 500.00                 | 63.997                            | 1.729                                 | 250                   | 0.6170             |                         | 0.0000               |                            | 0.0000                  | 2.346                               |         |
| 6                 | 500.40                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 498                        | 1.2290                  | 1.846                               |         |
| 7                 | 500.50                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 694                        | 1.7127                  | 2.330                               |         |



| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 8                 | 500.80                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 1388                       | 3.4254                  | 4.042                               |         |
| 9                 | 500.40                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 498                        | 1.2290                  | 1.846                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>4.319</b>       |                         | <b>0.000</b>         |                            | <b>7.755</b>            | <b>13.186</b>                       |         |
| 10                | 500.40                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 498                        | 1.2290                  | 1.846                               |         |
| 11                | 500.50                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 694                        | 1.7127                  | 2.330                               |         |
| 12                | 500.50                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 694                        | 1.7127                  | 2.330                               |         |
| 13                | 500.40                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 498                        | 1.2290                  | 1.846                               |         |
| 14                | 500.70                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 1137                       | 2.8060                  | 3.423                               |         |
| 15                | 501.50                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 3757                       | 9.2719                  | 9.889                               |         |
| 16                | 501.00                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 1927                       | 4.7556                  | 5.373                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>4.319</b>       |                         | <b>0.000</b>         |                            | <b>22.717</b>           | <b>27.036</b>                       |         |
| 17                | 500.60                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 908                        | 2.2408                  | 2.858                               |         |
| 18                | 501.10                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 2216                       | 5.4689                  | 6.086                               |         |
| 19                | 501.00                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 1927                       | 4.7556                  | 5.373                               |         |
| 20                | 500.90                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 1696                       | 4.1856                  | 4.803                               |         |
| 21                | 500.80                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 1338                       | 3.3020                  | 3.919                               |         |
| 22                | 500.50                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 694                        | 1.7127                  | 2.330                               |         |
| 23                | 500.80                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 1338                       | 3.3020                  | 3.919                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>4.319</b>       |                         | <b>0.000</b>         |                            | <b>24.968</b>           | <b>29.287</b>                       |         |
| 24                | 500.80                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 1338                       | 3.3020                  | 3.919                               |         |
| 25                | 500.60                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 906                        | 2.2359                  | 2.853                               |         |
| 26                | 500.40                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 498                        | 1.2290                  | 1.846                               |         |
| 27                | 500.30                 | 63.997                            | 0.000                                 | 250                   | 0.6170             |                         | 0.0000               | 308                        | 0.7601                  | 1.377                               |         |
| 28                | 499.80                 | 62.844                            | -1.153                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 1.932                               |         |
| 29                | 499.50                 | 61.115                            | -1.729                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 1.356                               |         |
| 30                | 499.20                 | 59.386                            | -1.729                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 1.356                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-4.611</b>                         |                       | <b>4.319</b>       |                         | <b>7.404</b>         |                            | <b>7.527</b>            | <b>14.639</b>                       |         |
| <b>10-01-1997</b> | 498.70                 | 56.504                            | -2.882                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 0.203                               |         |
| 2                 | 498.00                 | 55.020                            | -1.484                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 1.601                               |         |
| 3                 | 497.60                 | 53.960                            | -1.060                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 2.025                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 4            | 497.00                 | 52.900                            | -1.060                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 2.025                               |         |
| 5            | 496.30                 | 51.416                            | -1.484                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 1.601                               |         |
| 6            | 495.40                 | 49.310                            | -2.106                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 0.979                               |         |
| 7            | 494.40                 | 47.534                            | -1.777                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 1.308                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-11.852</b>                        |                       | <b>4.319</b>       |                         | <b>17.275</b>        |                            | <b>0.000</b>            | <b>9.742</b>                        |         |
| 8            | 493.30                 | 45.362                            | -2.172                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 0.913                               |         |
| 9            | 492.40                 | 43.585                            | -1.777                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 1.308                               |         |
| 10           | 492.00                 | 42.675                            | -0.911                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 2.174                               |         |
| 11           | 491.50                 | 41.987                            | -0.688                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 2.397                               |         |
| 12           | 490.70                 | 40.611                            | -1.376                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 1.709                               |         |
| 13           | 490.40                 | 40.095                            | -0.516                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 2.569                               |         |
| 14           | 489.60                 | 38.719                            | -1.376                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 1.709                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-8.815</b>                         |                       | <b>4.319</b>       |                         | <b>17.275</b>        |                            | <b>0.000</b>            | <b>12.780</b>                       |         |
| 15           | 488.70                 | 37.054                            | -1.665                                |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 0.803                               |         |
| 16           | 488.10                 | 36.286                            | -0.768                                |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 1.700                               |         |
| 17           | 487.30                 | 35.056                            | -1.229                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 1.855                               |         |
| 18           | 486.60                 | 33.981                            | -1.076                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 2.009                               |         |
| 19           | 485.40                 | 32.171                            | -1.810                                | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 1.769                               |         |
| 20           | 483.90                 | 30.123                            | -2.048                                | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 1.531                               |         |
| 21           | 482.30                 | 27.939                            | -2.184                                | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 1.394                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-10.780</b>                        |                       | <b>3.085</b>       |                         | <b>18.756</b>        |                            | <b>0.000</b>            | <b>11.061</b>                       |         |
| 22           | 480.30                 | 25.530                            | -2.410                                | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 1.169                               |         |
| 23           | 478.50                 | 23.435                            | -2.094                                | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 1.484                               |         |
| 24           | 476.70                 | 21.535                            | -1.901                                | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 1.678                               |         |
| 25           | 475.40                 | 20.195                            | -1.340                                | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 2.238                               |         |
| 26           | 473.60                 | 18.490                            | -1.705                                | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 1.874                               |         |
| 27           | 471.40                 | 16.577                            | -1.913                                | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 1.665                               |         |
| 28           | 469.00                 | 14.698                            | -1.878                                | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 1.700                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-13.241</b>                        |                       | <b>4.319</b>       |                         | <b>20.730</b>        |                            | <b>0.000</b>            | <b>11.808</b>                       |         |
| 29           | 466.80                 | 13.208                            | -1.491                                | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 2.088                               |         |

| Date              | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 30                | 464.30                 | 11.679                            | -1.529                                | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 2.050                               |         |
| 31                | 469.60                 | 15.072                            | 3.392                                 | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 6.971                               |         |
| <b>11-01-1997</b> | 471.50                 | 16.656                            | 1.585                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.585                               |         |
| 2                 | 472.00                 | 17.052                            | 0.396                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.396                               |         |
| 3                 | 472.50                 | 17.448                            | 0.396                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.396                               |         |
| 4                 | 473.00                 | 17.922                            | 0.474                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.474                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>3.224</b>                          |                       | <b>1.851</b>       |                         | <b>8.884</b>         |                            | <b>0.000</b>            | <b>13.959</b>                       |         |
| 5                 | 473.10                 | 18.017                            | 0.095                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.095                               |         |
| 6                 | 473.10                 | 18.017                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 | 473.10                 | 18.017                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8                 | 473.20                 | 18.111                            | 0.095                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.095                               |         |
| 9                 | 473.30                 | 18.206                            | 0.095                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.095                               |         |
| 10                | 475.10                 | 19.911                            | 1.705                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.705                               |         |
| 11                | 475.60                 | 20.384                            | 0.474                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.474                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>2.462</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>2.462</b>                        |         |
| 12                | 475.80                 | 20.585                            | 0.200                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.200                               |         |
| 13                | 476.00                 | 20.796                            | 0.211                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.211                               |         |
| 14                | 476.40                 | 21.218                            | 0.422                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.422                               |         |
| 15                | 476.60                 | 21.429                            | 0.211                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.211                               |         |
| 16                | 476.90                 | 21.746                            | 0.317                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.317                               |         |
| 17                | 477.00                 | 21.852                            | 0.106                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.106                               |         |
| 18                | 477.60                 | 22.485                            | 0.634                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.634                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>2.101</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>2.101</b>                        |         |
| 19                | 477.60                 | 22.485                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20                | 477.80                 | 22.696                            | 0.211                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.211                               |         |
| 21                | 478.00                 | 22.908                            | 0.211                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.211                               |         |
| 22                | 478.20                 | 23.119                            | 0.211                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.211                               |         |
| 23                | 478.30                 | 23.224                            | 0.106                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.106                               |         |
| 24                | 478.30                 | 23.224                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                | 478.40                 | 23.330                            | 0.106                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.106                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.845</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.845</b>                        |         |
| 26                | 478.40                 | 23.330                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27                | 478.50                 | 23.435                            | 0.106                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.106                               |         |
| 28                | 478.60                 | 23.435                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29                | 478.60                 | 23.435                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30                | 478.70                 | 23.647                            | 0.211                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.211                               |         |
| <b>12-01-1997</b> | 478.80                 | 23.752                            | 0.106                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.106                               |         |
| 2                 | 479.00                 | 23.963                            | 0.211                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.211                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.634</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.634</b>                        |         |
| 3                 | 479.30                 | 24.325                            | 0.361                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.361                               |         |
| 4                 | 479.50                 | 24.566                            | 0.241                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.241                               |         |
| 5                 | 479.60                 | 24.686                            | 0.120                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.120                               |         |
| 6                 | 479.90                 | 25.048                            | 0.361                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.361                               |         |
| 7                 | 480.10                 | 25.289                            | 0.241                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.241                               |         |
| 8                 | 480.10                 | 25.289                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9                 | 480.50                 | 25.771                            | 0.482                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.482                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>1.807</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.807</b>                        |         |
| 10                | 480.60                 | 25.891                            | 0.120                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.120                               |         |
| 11                | 480.70                 | 26.012                            | 0.120                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.120                               |         |
| 12                | 481.00                 | 26.373                            | 0.361                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.361                               |         |
| 13                | 481.20                 | 26.614                            | 0.241                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.241                               |         |
| 14                | 481.90                 | 27.457                            | 0.843                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.843                               |         |
| 15                | 482.10                 | 27.698                            | 0.241                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.241                               |         |
| 16                | 482.30                 | 27.939                            | 0.241                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.241                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>2.169</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>2.169</b>                        |         |
| 17                | 482.50                 | 28.212                            | 0.273                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.273                               |         |
| 18                | 482.60                 | 28.349                            | 0.137                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.137                               |         |
| 19                | 482.60                 | 28.349                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20                | 482.60                 | 28.349                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21                | 482.60                 | 28.349                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 22                | 482.70                 | 28.485                            | 0.137                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.137                               |         |
| 23                | 482.70                 | 28.485                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.546</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.546</b>                        |         |
| 24                | 482.70                 | 28.485                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                | 482.80                 | 28.622                            | 0.137                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.137                               |         |
| 26                | 482.80                 | 28.622                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27                | 482.80                 | 28.622                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28                | 482.80                 | 28.622                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29                | 482.90                 | 28.758                            | 0.137                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.137                               |         |
| 30                | 482.90                 | 28.758                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31                | 482.90                 | 28.758                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.273</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.273</b>                        |         |
| <b>01-01-1998</b> | 482.90                 | 28.758                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 482.90                 | 28.758                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 | 483.00                 | 28.895                            | 0.137                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.137                               |         |
| 4                 | 483.00                 | 28.895                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5                 | 483.00                 | 28.895                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6                 | 483.00                 | 28.895                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 | 483.00                 | 28.895                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.137</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.137</b>                        |         |
| 8                 | 483.00                 | 28.895                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9                 | 483.10                 | 28.895                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10                | 483.10                 | 28.895                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.123                               |         |
| 11                | 483.10                 | 28.895                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.123                               |         |
| 12                | 483.10                 | 28.895                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.123                               |         |
| 13                | 483.10                 | 28.895                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.123                               |         |
| 14                | 483.10                 | 28.895                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.123                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.617</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.617</b>                        |         |
| 15                | 483.00                 | 28.895                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.370                               |         |
| 16                | 482.90                 | 28.758                            | -0.137                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.234                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 17                | 482.90                 | 28.758                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.370                               |         |
| 18                | 482.80                 | 28.622                            | -0.137                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.234                               |         |
| 19                | 482.70                 | 28.485                            | -0.137                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.234                               |         |
| 20                | 482.70                 | 28.485                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.370                               |         |
| 21                | 482.60                 | 28.349                            | -0.137                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.234                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.546</b>                         |                       | <b>2.591</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>2.045</b>                        |         |
| 22                | 482.60                 | 28.349                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.370                               |         |
| 23                | 482.50                 | 28.212                            | -0.137                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.234                               |         |
| 24                | 482.50                 | 28.212                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                | 482.40                 | 28.076                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26                | 482.30                 | 27.939                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27                | 482.30                 | 27.939                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28                | 482.20                 | 27.819                            | -0.120                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.530</b>                         |                       | <b>0.740</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.604</b>                        |         |
| 29                | 482.20                 | 27.819                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30                | 482.10                 | 27.698                            | -0.120                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31                | 482.10                 | 27.698                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>02-01-1998</b> | 482.10                 | 27.698                            | 0.000                                 |                       | 0.0000             | 400                     | 0.9872               |                            | 0.0000                  | 0.987                               |         |
| 2                 | 481.40                 | 26.855                            | -0.843                                | 150                   | 0.3702             | 600                     | 1.4807               |                            | 0.0000                  | 1.008                               |         |
| 3                 | 480.20                 | 25.409                            | -1.446                                | 150                   | 0.3702             | 600                     | 1.4807               |                            | 0.0000                  | 0.405                               |         |
| 4                 | 479.00                 | 23.963                            | -1.446                                | 150                   | 0.3702             | 600                     | 1.4807               |                            | 0.0000                  | 0.405                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-3.855</b>                         |                       | <b>1.111</b>       |                         | <b>5.429</b>         |                            | <b>0.000</b>            | <b>2.805</b>                        |         |
| 5                 | 478.50                 | 23.435                            | -0.528                                | 150                   | 0.3702             | 800                     | 1.9743               |                            | 0.0000                  | 1.817                               |         |
| 6                 | 477.30                 | 22.168                            | -1.267                                | 150                   | 0.3702             | 800                     | 1.9743               |                            | 0.0000                  | 1.077                               |         |
| 7                 | 476.00                 | 20.796                            | -1.373                                | 150                   | 0.3702             | 800                     | 1.9743               |                            | 0.0000                  | 0.972                               |         |
| 8                 | 475.00                 | 19.816                            | -0.980                                | 150                   | 0.3702             | 800                     | 1.9743               |                            | 0.0000                  | 1.365                               |         |
| 9                 | 474.00                 | 18.869                            | -0.947                                | 150                   | 0.3702             | 800                     | 1.9743               |                            | 0.0000                  | 1.397                               |         |
| 10                | 473.30                 | 18.206                            | -0.663                                | 150                   | 0.3702             | 800                     | 1.9743               |                            | 0.0000                  | 1.682                               |         |
| 11                | 472.80                 | 17.733                            | -0.474                                | 150                   | 0.3702             | 800                     | 1.9743               |                            | 0.0000                  | 1.871                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-6.231</b>                         |                       | <b>2.591</b>       |                         | <b>13.820</b>        |                            | <b>0.000</b>            | <b>10.181</b>                       |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 12                | 471.80                 | 16.894                            | -0.839                                | 150                   | 0.3702             | 800                     | 1.9743               |                            | 0.0000                  | 1.506                               |         |
| 13                | 471.20                 | 16.418                            | -0.475                                | 150                   | 0.3702             | 800                     | 1.9743               |                            | 0.0000                  | 1.869                               |         |
| 14                | 469.80                 | 15.309                            | -1.109                                | 150                   | 0.3702             | 800                     | 1.9743               |                            | 0.0000                  | 1.235                               |         |
| 15                | 468.90                 | 14.631                            | -0.679                                | 150                   | 0.3702             | 800                     | 1.9743               |                            | 0.0000                  | 1.666                               |         |
| 16                | 467.70                 | 13.818                            | -0.813                                | 150                   | 0.3702             | 800                     | 1.9743               |                            | 0.0000                  | 1.531                               |         |
| 17                | 464.20                 | 11.622                            | -2.196                                | 150                   | 0.3702             | 800                     | 1.9743               |                            | 0.0000                  | 0.149                               |         |
| 18                | 462.30                 | 10.558                            | -1.063                                | 150                   | 0.3702             | 800                     | 1.9743               |                            | 0.0000                  | 1.281                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-7.174</b>                         |                       | <b>2.591</b>       |                         | <b>13.820</b>        |                            | <b>0.000</b>            | <b>9.237</b>                        |         |
| 19                | 462.10                 | 10.462                            | -0.096                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.274                               |         |
| 20                | 461.90                 | 10.365                            | -0.096                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.274                               |         |
| 21                | 461.80                 | 10.269                            | -0.096                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.397                               |         |
| 22                | 461.20                 | 10.028                            | -0.241                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.252                               |         |
| 23                | 460.90                 | 9.835                             | -0.193                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.301                               |         |
| 24                | 460.90                 | 9.835                             | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.494                               |         |
| 25                | 460.70                 | 9.787                             | -0.048                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.445                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.772</b>                         |                       | <b>3.208</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>2.437</b>                        |         |
| 26                | 460.70                 | 9.787                             | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.494                               |         |
| 27                | 460.50                 | 9.690                             | -0.096                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.397                               |         |
| 28                | 460.30                 | 9.594                             | -0.096                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.397                               |         |
| <b>03-01-1998</b> | 460.00                 | 9.449                             | -0.145                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.225                               |         |
| 2                 | 459.40                 | 9.160                             | -0.289                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.081                               |         |
| 3                 | 458.80                 | 8.904                             | -0.255                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.115                               |         |
| 4                 | 458.10                 | 8.614                             | -0.290                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.080                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.173</b>                         |                       | <b>2.961</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.789</b>                        |         |
| 5                 | 457.50                 | 8.324                             | -0.290                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.080                               |         |
| 6                 | 457.00                 | 8.158                             | -0.166                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 | 457.00                 | 8.158                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8                 | 457.00                 | 8.158                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9                 | 457.00                 | 8.158                             | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.370                               |         |
| 10                | 456.60                 | 7.993                             | -0.166                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.204                               |         |

| Date              | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 11                | 456.20                 | 7.827                             | -0.166                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.204                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.787</b>                         |                       | <b>1.481</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.859</b>                        |         |
| 12                | 455.70                 | 7.652                             | -0.175                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.196                               |         |
| 13                | 455.20                 | 7.486                             | -0.166                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.204                               |         |
| 14                | 455.30                 | 7.486                             | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.370                               |         |
| 15                | 454.60                 | 7.286                             | -0.200                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.171                               |         |
| 16                | 454.00                 | 7.087                             | -0.200                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.171                               |         |
| 17                | 454.00                 | 7.087                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18                | 454.00                 | 7.087                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.740</b>                         |                       | <b>1.851</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.111</b>                        |         |
| 19                | 454.00                 | 7.087                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20                | 453.90                 | 7.053                             | -0.033                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.337                               |         |
| 21                | 453.90                 | 7.053                             | 0.000                                 | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 1.604                               |         |
| 22                | 451.80                 | 6.412                             | -0.641                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.963                               |         |
| 23                | 450.20                 | 5.972                             | -0.440                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 1.164                               |         |
| 24                | 448.50                 | 5.532                             | -0.440                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 1.164                               |         |
| 25                | 447.70                 | 5.334                             | -0.198                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 1.406                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.752</b>                         |                       | <b>2.221</b>       |                         | <b>6.170</b>         |                            | <b>0.000</b>            | <b>6.639</b>                        |         |
| 26                | 446.20                 | 4.963                             | -0.371                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 1.233                               |         |
| 27                | 445.00                 | 4.671                             | -0.292                                |                       | 0.0000             | 500                     | 1.2339               |                            | 0.0000                  | 0.942                               |         |
| 28                | 443.80                 | 4.379                             | -0.292                                |                       | 0.0000             | 500                     | 1.2339               |                            | 0.0000                  | 0.942                               |         |
| 29                | 442.80                 | 4.135                             | -0.244                                |                       | 0.0000             | 500                     | 1.2339               |                            | 0.0000                  | 0.990                               |         |
| 30                | 443.00                 | 4.160                             | 0.025                                 |                       | 0.0000             | 500                     | 1.2339               |                            | 0.0000                  | 1.259                               |         |
| 31                | 450.00                 | 5.917                             | 1.758                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.758                               |         |
| <b>04-01-1998</b> | 451.10                 | 6.220                             | 0.303                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.303                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.885</b>                          |                       | <b>0.370</b>       |                         | <b>6.170</b>         |                            | <b>0.000</b>            | <b>7.425</b>                        |         |
| 2                 | 451.10                 | 6.220                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 | 451.30                 | 6.275                             | 0.055                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.055                               |         |
| 4                 | 451.30                 | 6.275                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5                 | 451.30                 | 6.275                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |



| Date              | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 6                 | 451.60                 | 6.357                             | 0.083                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.083                               |         |
| 7                 | 451.60                 | 6.357                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8                 | 451.60                 | 6.357                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.138</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.138</b>                        |         |
| 9                 | 452.00                 | 6.467                             | 0.110                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.110                               |         |
| 10                | 452.00                 | 6.467                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11                | 452.10                 | 6.495                             | 0.028                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.028                               |         |
| 12                | 452.20                 | 6.522                             | 0.028                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.028                               |         |
| 13                | 452.20                 | 6.522                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14                | 452.30                 | 6.550                             | 0.028                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.028                               |         |
| 15                | 452.60                 | 6.632                             | 0.083                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.083                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.275</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.275</b>                        |         |
| 16                | 452.60                 | 6.632                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17                | 452.60                 | 6.632                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18                | 452.60                 | 6.632                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19                | 452.70                 | 6.660                             | 0.028                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.028                               |         |
| 20                | 452.70                 | 6.660                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21                | 454.20                 | 7.153                             | 0.493                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.493                               |         |
| 22                | 454.30                 | 7.186                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.554</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.554</b>                        |         |
| 23                | 454.40                 | 7.220                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 24                | 454.60                 | 7.286                             | 0.067                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.067                               |         |
| 25                | 454.70                 | 7.320                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 26                | 454.90                 | 7.386                             | 0.067                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.067                               |         |
| 27                | 455.00                 | 7.419                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 28                | 455.00                 | 7.419                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29                | 455.10                 | 7.453                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.266</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.266</b>                        |         |
| 30                | 455.20                 | 7.486                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| <b>05-01-1998</b> | 455.30                 | 7.486                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date         | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 2            | 455.50                 | 7.586                             | 0.100                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.100                               |         |
| 3            | 455.50                 | 7.586                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4            | 455.50                 | 7.586                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5            | 455.60                 | 7.619                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 6            | 455.70                 | 7.652                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.200</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.200</b>                        |         |
| 7            | 455.70                 | 7.652                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8            | 455.80                 | 7.686                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 9            | 455.80                 | 7.686                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10           | 455.90                 | 7.719                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 11           | 456.10                 | 7.785                             | 0.067                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.067                               |         |
| 12           | 456.10                 | 7.785                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13           | 456.00                 | 7.752                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.100</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.133</b>                        |         |
| 14           | 456.00                 | 7.752                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15           | 455.90                 | 7.719                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16           | 455.90                 | 7.719                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17           | 455.80                 | 7.686                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18           | 455.70                 | 7.652                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19           | 455.70                 | 7.652                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20           | 455.60                 | 7.619                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-0.133</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 21           | 455.60                 | 7.619                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22           | 455.50                 | 7.586                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23           | 455.40                 | 7.552                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24           | 455.40                 | 7.552                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25           | 455.30                 | 7.486                             | -0.067                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26           | 455.20                 | 7.486                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27           | 455.20                 | 7.486                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-0.133</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 28                | 455.10                 | 7.453                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29                | 455.00                 | 7.419                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30                | 454.90                 | 7.386                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31                | 454.80                 | 7.353                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>06-01-1998</b> | 454.70                 | 7.320                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 454.60                 | 7.286                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 | 454.50                 | 7.253                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.233</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 4                 | 454.40                 | 7.220                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5                 | 454.30                 | 7.186                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6                 | 454.20                 | 7.153                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 | 454.10                 | 7.087                             | -0.067                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8                 | 453.90                 | 7.053                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9                 | 453.50                 | 6.920                             | -0.133                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10                | 453.40                 | 6.887                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.366</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 11                | 453.40                 | 6.887                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12                | 453.30                 | 6.854                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13                | 453.30                 | 6.854                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14                | 453.80                 | 7.020                             | 0.166                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.166                               |         |
| 15                | 453.90                 | 7.053                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 16                | 454.00                 | 7.087                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 17                | 454.00                 | 7.087                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.200</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.233</b>                        |         |
| 18                | 454.30                 | 7.186                             | 0.100                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.100                               |         |
| 19                | 454.90                 | 7.386                             | 0.200                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.200                               |         |
| 20                | 455.20                 | 7.486                             | 0.100                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.100                               |         |
| 21                | 456.10                 | 7.785                             | 0.299                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.299                               |         |
| 22                | 456.90                 | 8.117                             | 0.332                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.332                               |         |
| 23                | 458.50                 | 8.780                             | 0.663                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.663                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 24                | 459.00                 | 8.987                             | 0.207                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.207                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>1.900</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.900</b>                        |         |
| 25                | 459.40                 | 9.160                             | 0.173                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.173                               |         |
| 26                | 459.80                 | 9.304                             | 0.145                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.145                               |         |
| 27                | 460.20                 | 9.545                             | 0.241                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.241                               |         |
| 28                | 460.40                 | 9.642                             | 0.096                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.096                               |         |
| 29                | 460.50                 | 9.690                             | 0.048                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.048                               |         |
| 30                | 460.50                 | 9.690                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>07-01-1998</b> | 460.70                 | 9.787                             | 0.096                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.096                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.800</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.800</b>                        |         |
| 2                 | 461.10                 | 9.980                             | 0.193                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.193                               |         |
| 3                 | 461.50                 | 10.173                            | 0.193                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.193                               |         |
| 4                 | 461.70                 | 10.269                            | 0.096                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.096                               |         |
| 5                 | 461.90                 | 10.365                            | 0.096                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.096                               |         |
| 6                 | 463.20                 | 11.048                            | 0.682                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.682                               |         |
| 7                 | 465.40                 | 12.311                            | 1.263                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.263                               |         |
| 8                 | 472.50                 | 17.448                            | 5.138                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 5.138                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>7.662</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>7.662</b>                        |         |
| 9                 | 474.00                 | 18.869                            | 1.421                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.421                               |         |
| 10                | 475.10                 | 19.911                            | 1.042                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.042                               |         |
| 11                | 475.60                 | 20.384                            | 0.474                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.474                               |         |
| 12                | 478.30                 | 23.224                            | 2.840                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.840                               |         |
| 13                | 480.70                 | 26.012                            | 2.787                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.787                               |         |
| 14                | 500.80                 | 63.997                            | 37.985                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 37.985                              |         |
| 15                | 502.00                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 5450                       | 13.4500                 | 13.450                              |         |
| <b>TOTAL</b>      |                        |                                   | <b>46.549</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>13.450</b>           | <b>59.999</b>                       |         |
| 16                | 501.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 3500                       | 8.6376                  | 8.638                               |         |
| 17                | 501.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 2216                       | 5.4689                  | 5.469                               |         |
| 18                | 501.00                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1927                       | 4.7556                  | 4.756                               |         |
| 19                | 502.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 6587                       | 16.2560                 | 16.256                              |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 20                | 501.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 2216                       | 5.4689                  | 5.469                               |         |
| 21                | 500.70                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1137                       | 2.8060                  | 2.806                               |         |
| 22                | 500.50                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 694                        | 1.7127                  | 1.713                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>45.106</b>           | <b>45.106</b>                       |         |
| 23                | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498                        | 1.2290                  | 1.229                               |         |
| 24                | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 308                        | 0.7601                  | 0.760                               |         |
| 25                | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 26                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27                | 500.10                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 28                | 500.10                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 29                | 500.20                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.740</b>       |                         | <b>0.000</b>         |                            | <b>2.416</b>            | <b>3.156</b>                        |         |
| 30                | 500.10                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.432                               |         |
| 31                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             | 250                     | 0.6170               |                            | 0.0000                  | 0.617                               |         |
| <b>08-01-1998</b> | 500.00                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 2                 | 499.80                 | 62.844                            | -1.153                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 | 500.20                 | 63.997                            | 1.153                                 | 100                   | 0.2468             |                         | 0.0000               | 173                        | 0.4269                  | 1.827                               |         |
| 4                 | 500.40                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 498                        | 1.2290                  | 1.476                               |         |
| 5                 | 500.40                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 498                        | 1.2290                  | 1.476                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>1.666</b>       |                         | <b>0.617</b>         |                            | <b>2.885</b>            | <b>6.074</b>                        |         |
| 6                 | 501.00                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 1327                       | 3.2749                  | 3.522                               |         |
| 7                 | 500.60                 | 63.997                            | 0.000                                 | 75                    | 0.1851             |                         | 0.0000               | 706                        | 1.7423                  | 1.927                               |         |
| 8                 | 500.70                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 1174                       | 2.8973                  | 3.391                               |         |
| 9                 | 500.50                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 694                        | 1.7127                  | 1.713                               |         |
| 10                | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498                        | 1.2290                  | 1.229                               |         |
| 11                | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 308                        | 0.7601                  | 0.760                               |         |
| 12                | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 308                        | 0.7601                  | 0.760                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.925</b>       |                         | <b>0.000</b>         |                            | <b>12.376</b>           | <b>13.302</b>                       |         |
| 13                | 500.50                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 694                        | 1.7127                  | 1.713                               |         |
| 14                | 500.90                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 1646                       | 4.0622                  | 4.309                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 15                | 500.80                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 1388                       | 3.4254                  | 3.672                               |         |
| 16                | 500.50                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 694                        | 1.7127                  | 1.960                               |         |
| 17                | 500.50                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 694                        | 1.7127                  | 2.083                               |         |
| 18                | 500.70                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 1137                       | 2.8060                  | 3.176                               |         |
| 19                | 501.20                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 2544                       | 6.2783                  | 6.772                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>1.974</b>       |                         | <b>0.000</b>         |                            | <b>21.710</b>           | <b>23.684</b>                       |         |
| 20                | 500.70                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 1137                       | 2.8060                  | 3.300                               |         |
| 21                | 501.60                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 3893                       | 9.6075                  | 10.101                              |         |
| 22                | 500.90                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 1646                       | 4.0622                  | 4.556                               |         |
| 23                | 500.70                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 1137                       | 2.8060                  | 3.300                               |         |
| 24                | 500.40                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 498                        | 1.2290                  | 1.723                               |         |
| 25                | 500.30                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 308                        | 0.7601                  | 1.254                               |         |
| 26                | 502.00                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 5450                       | 13.4500                 | 13.944                              |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>3.455</b>       |                         | <b>0.000</b>         |                            | <b>34.721</b>           | <b>38.176</b>                       |         |
| 27                | 501.10                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 2216                       | 5.4689                  | 5.962                               |         |
| 28                | 500.70                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 1137                       | 2.8060                  | 3.300                               |         |
| 29                | 501.00                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 1927                       | 4.7556                  | 5.249                               |         |
| 30                | 500.70                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 1137                       | 2.8060                  | 3.300                               |         |
| 31                | 501.50                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 3527                       | 8.7043                  | 9.198                               |         |
| <b>09-01-1998</b> | 500.90                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 1646                       | 4.0622                  | 4.556                               |         |
| 2                 | 501.30                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 2852                       | 7.0384                  | 7.532                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>3.455</b>       |                         | <b>0.000</b>         |                            | <b>35.641</b>           | <b>39.096</b>                       |         |
| 3                 | 502.40                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 7428                       | 18.3315                 | 18.825                              |         |
| 3                 | 503.30                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 11535                      | 28.4672                 | 28.591                              |         |
| 3                 | 503.00                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 10000                      | 24.6790                 | 24.802                              |         |
| 4                 | 502.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 6730                       | 16.6089                 | 16.609                              |         |
| 5                 | 501.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 3200                       | 7.8973                  | 7.897                               |         |
| 6                 | 500.90                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1646                       | 4.0622                  | 4.062                               |         |
| 7                 | 501.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 2216                       | 5.4689                  | 5.469                               |         |
| 8                 | 500.80                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1388                       | 3.4254                  | 3.425                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 9                 | 500.5                  | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 694                        | 1.7127                  | 1.713                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.740</b>       |                         | <b>0.000</b>         |                            | <b>110.653</b>          | <b>111.393</b>                      |         |
| 10                | 501.60                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 3893                       | 9.6075                  | 9.608                               |         |
| 11                | 501.90                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 5050                       | 12.4629                 | 12.463                              |         |
| 12                | 501.70                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 4260                       | 10.5132                 | 10.513                              |         |
| 13                | 501.10                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 2216                       | 5.4689                  | 5.716                               |         |
| 14                | 501.00                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 1927                       | 4.7556                  | 5.002                               |         |
| 15                | 500.60                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 706                        | 1.7423                  | 1.989                               |         |
| 16                | 500.50                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 694                        | 1.7127                  | 1.960                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.987</b>       |                         | <b>0.000</b>         |                            | <b>46.263</b>           | <b>47.250</b>                       |         |
| 17                | 500.40                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 498                        | 1.2290                  | 1.476                               |         |
| 18                | 500.80                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 1388                       | 3.4254                  | 3.796                               |         |
| 19                | 500.50                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 694                        | 1.7127                  | 2.206                               |         |
| 20                | 500.40                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 498                        | 1.2290                  | 1.723                               |         |
| 21                | 500.30                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 308                        | 0.7601                  | 1.254                               |         |
| 22                | 500.20                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 173                        | 0.4269                  | 0.921                               |         |
| 23                | 499.80                 | 62.844                            | -1.153                                | 250                   | 0.6170             | 800                     | 1.9743               |                            | 0.0000                  | 1.438                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.153</b>                         |                       | <b>3.208</b>       |                         | <b>1.974</b>         |                            | <b>8.783</b>            | <b>12.813</b>                       |         |
| 24                | 499.30                 | 59.962                            | -2.882                                | 250                   | 0.6170             | 800                     | 1.9743               |                            | 0.0000                  | 0.000                               |         |
| 25                | 498.70                 | 56.504                            | -3.458                                | 250                   | 0.6170             | 800                     | 1.9743               |                            | 0.0000                  | 0.000                               |         |
| 26                | 498.00                 | 55.020                            | -1.484                                | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 2.094                               |         |
| 27                | 497.00                 | 52.900                            | -2.120                                | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 1.458                               |         |
| 28                | 496.10                 | 50.992                            | -1.908                                | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 1.670                               |         |
| 29                | 498.30                 | 55.656                            | 4.664                                 | 250                   | 0.6170             | 1400                    | 3.4551               |                            | 0.0000                  | 8.736                               |         |
| 30                | 498.20                 | 55.444                            | -0.212                                | 250                   | 0.6170             | 1400                    | 3.4551               |                            | 0.0000                  | 3.860                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-7.400</b>                         |                       | <b>4.319</b>       |                         | <b>19.743</b>        |                            | <b>0.000</b>            | <b>17.819</b>                       |         |
| <b>10-01-1998</b> | 497.60                 | 53.960                            | -1.484                                | 250                   | 0.6170             | 1400                    | 3.4551               |                            | 0.0000                  | 2.588                               |         |
| 2                 | 498.00                 | 55.020                            | 1.060                                 | 250                   | 0.6170             | 1400                    | 3.4551               |                            | 0.0000                  | 5.132                               |         |
| 3                 | 500.50                 | 63.997                            | 8.977                                 | 250                   | 0.6170             | 1400                    | 3.4551               | 694                        | 1.7127                  | 14.762                              |         |
| 4                 | 502.00                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 5450                       | 13.4500                 | 13.944                              |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 5            | 501.10                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 2216                       | 5.4689                  | 5.962                               |         |
| 6            | 500.70                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 1137                       | 2.8060                  | 3.300                               |         |
| 7            | 500.50                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 694                        | 1.7127                  | 2.206                               |         |
| <b>TOTAL</b> |                        |                                   | <b>8.553</b>                          |                       | <b>3.825</b>       |                         | <b>10.365</b>        |                            | <b>25.150</b>           | <b>47.894</b>                       |         |
| 8            | 500.30                 | 63.997                            | 0.000                                 | 250                   | 0.6170             | 1200                    | 2.9615               | 328                        | 0.8095                  | 4.388                               |         |
| 9            | 499.80                 | 62.844                            | -1.153                                | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 2.426                               |         |
| 10           | 499.30                 | 59.962                            | -2.882                                | 250                   | 0.6170             | 1200                    | 2.9615               |                            | 0.0000                  | 0.697                               |         |
| 11           | 499.10                 | 58.810                            | -1.153                                | 250                   | 0.6170             | 1400                    | 3.4551               |                            | 0.0000                  | 2.919                               |         |
| 12           | 498.50                 | 56.080                            | -2.730                                | 250                   | 0.6170             | 1400                    | 3.4551               |                            | 0.0000                  | 1.343                               |         |
| 13           | 497.60                 | 53.960                            | -2.120                                | 250                   | 0.6170             | 1400                    | 3.4551               |                            | 0.0000                  | 1.952                               |         |
| 14           | 496.60                 | 52.052                            | -1.908                                | 250                   | 0.6170             | 1400                    | 3.4551               |                            | 0.0000                  | 2.164                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-11.945</b>                        |                       | <b>4.319</b>       |                         | <b>22.705</b>        |                            | <b>0.809</b>            | <b>15.888</b>                       |         |
| 15           | 495.50                 | 49.720                            | -2.332                                | 250                   | 0.6170             | 1400                    | 3.4551               |                            | 0.0000                  | 1.740                               |         |
| 16           | 494.30                 | 47.336                            | -2.384                                | 250                   | 0.6170             | 1400                    | 3.4551               |                            | 0.0000                  | 1.689                               |         |
| 17           | 493.00                 | 44.770                            | -2.566                                | 250                   | 0.6170             | 1400                    | 3.4551               |                            | 0.0000                  | 1.506                               |         |
| 18           | 492.20                 | 43.190                            | -1.579                                | 250                   | 0.6170             | 1400                    | 3.4551               |                            | 0.0000                  | 2.493                               |         |
| 19           | 492.40                 | 43.585                            | 0.395                                 | 250                   | 0.6170             | 1400                    | 3.4551               |                            | 0.0000                  | 4.467                               |         |
| 20           | 494.20                 | 46.941                            | 3.356                                 | 250                   | 0.6170             | 1400                    | 3.4551               |                            | 0.0000                  | 7.428                               |         |
| 21           | 495.90                 | 50.568                            | 3.626                                 | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 7.081                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-1.484</b>                         |                       | <b>4.195</b>       |                         | <b>23.692</b>        |                            | <b>0.000</b>            | <b>26.403</b>                       |         |
| 22           | 495.70                 | 50.144                            | -0.424                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 3.031                               |         |
| 23           | 496.80                 | 52.476                            | 2.332                                 | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 2.826                               |         |
| 24           | 497.90                 | 54.808                            | 2.332                                 | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 2.826                               |         |
| 25           | 498.50                 | 56.080                            | 1.272                                 | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 1.766                               |         |
| 26           | 498.90                 | 57.657                            | 1.577                                 | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 2.070                               |         |
| 27           | 499.00                 | 58.233                            | 0.576                                 | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 1.070                               |         |
| 28           | 499.40                 | 60.539                            | 2.305                                 | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 2.799                               |         |
| <b>TOTAL</b> |                        |                                   | <b>9.971</b>                          |                       | <b>3.455</b>       |                         | <b>2.961</b>         |                            | <b>0.000</b>            | <b>16.388</b>                       |         |
| 29           | 499.60                 | 61.691                            | 1.153                                 | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 1.646                               |         |
| 30           | 499.70                 | 62.268                            | 0.576                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.947                               |         |



| Date              | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 31                | 500.10                 | 63.997                            | 1.729                                 | 150                   | 0.3702             |                         | 0.0000               | 64.3                       | 0.1587                  | 2.258                               |         |
| <b>11-01-1998</b> | 500.90                 | 67.532                            | 3.535                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 3.535                               |         |
| 2                 | 500.50                 | 65.961                            | -1.571                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 | 500.50                 | 65.961                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4                 | 500.50                 | 65.961                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>5.422</b>                          |                       | <b>1.234</b>       |                         | <b>0.000</b>         |                            | <b>0.159</b>            | <b>8.386</b>                        |         |
| 5                 | 500.40                 | 65.568                            | -0.393                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6                 | 500.40                 | 65.568                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 | 500.30                 | 65.175                            | -0.393                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8                 | 500.30                 | 65.175                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9                 | 500.30                 | 65.175                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10                | 500.30                 | 65.175                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11                | 500.20                 | 64.782                            | -0.393                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.178</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 12                | 500.20                 | 64.782                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13                | 500.20                 | 64.782                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14                | 500.20                 | 64.782                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15                | 500.20                 | 64.782                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16                | 500.20                 | 64.782                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17                | 500.20                 | 64.782                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18                | 500.20                 | 64.782                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 19                | 500.20                 | 64.782                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20                | 500.20                 | 64.782                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21                | 500.20                 | 64.782                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22                | 500.20                 | 64.782                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23                | 500.20                 | 64.782                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24                | 500.20                 | 64.782                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                | 500.20                 | 64.782                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 26                | 500.20                 | 64.782                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27                | 500.20                 | 64.782                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28                | 500.20                 | 64.782                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29                | 500.20                 | 64.782                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30                | 500.20                 | 64.782                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>12-01-1998</b> | 500.10                 | 63.997                            | -0.785                                |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.000                               |         |
| 2                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.785</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.317</b>            | <b>0.159</b>                        |         |
| 3                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 4                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 5                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 6                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 7                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 8                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 9                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>1.111</b>            | <b>1.111</b>                        |         |
| 10                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 11                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 12                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 13                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 14                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 15                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 16                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>1.111</b>            | <b>1.111</b>                        |         |
| 17                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 18                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 19                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 20                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 21                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 22                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 23                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>1.111</b>            | <b>1.111</b>                        |         |
| 24                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 25                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 26                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 27                | 500.10                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.529                               |         |
| 28                | 500.10                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.529                               |         |
| 29                | 500.00                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.370                               |         |
| 30                | 500.00                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.370                               |         |
| 31                | 499.90                 | 62.844                            | -1.153                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.153</b>                         |                       | <b>1.851</b>       |                         | <b>0.000</b>         |                            | <b>0.793</b>            | <b>2.274</b>                        |         |
| <b>01-01-1999</b> | 499.80                 | 62.844                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.370                               |         |
| 2                 | 499.80                 | 62.844                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.370                               |         |
| 3                 | 499.70                 | 62.268                            | -0.576                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4                 | 499.70                 | 62.268                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.370                               |         |
| 5                 | 499.60                 | 61.691                            | -0.576                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6                 | 499.50                 | 61.115                            | -0.576                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 | 499.40                 | 60.539                            | -0.576                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-2.305</b>                         |                       | <b>2.591</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.111</b>                        |         |
| 8                 | 499.30                 | 59.962                            | -0.576                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 1.028                               |         |
| 9                 | 498.90                 | 57.657                            | -2.305                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.000                               |         |
| 10                | 498.50                 | 56.080                            | -1.577                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.027                               |         |
| 11                | 498.20                 | 55.444                            | -0.636                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.968                               |         |
| 12                | 497.80                 | 54.596                            | -0.848                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.756                               |         |
| 13                | 497.30                 | 53.536                            | -1.060                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.544                               |         |
| 14                | 496.90                 | 52.688                            | -0.848                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.756                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-7.851</b>                         |                       | <b>2.591</b>       |                         | <b>8.638</b>         |                            | <b>0.000</b>            | <b>4.079</b>                        |         |
| 15                | 496.50                 | 51.628                            | -1.060                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.544                               |         |
| 16                | 496.10                 | 50.992                            | -0.636                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.968                               |         |
| 17                | 495.70                 | 50.144                            | -0.848                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.756                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 18                | 495.20                 | 49.113                            | -1.031                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.573                               |         |
| 19                | 494.90                 | 48.521                            | -0.592                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 1.012                               |         |
| 20                | 494.70                 | 48.126                            | -0.395                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 1.209                               |         |
| 21                | 494.20                 | 46.941                            | -1.184                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.420                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-5.747</b>                         |                       | <b>2.591</b>       |                         | <b>8.638</b>         |                            | <b>0.000</b>            | <b>5.482</b>                        |         |
| 22                | 493.50                 | 45.757                            | -1.184                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.420                               |         |
| 23                | 492.70                 | 44.178                            | -1.579                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.025                               |         |
| 24                | 492.10                 | 43.019                            | -1.159                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.445                               |         |
| 25                | 491.60                 | 42.159                            | -0.860                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.744                               |         |
| 26                | 491.00                 | 41.127                            | -1.032                                | 150                   | 0.3702             | 100                     | 0.2468               |                            | 0.0000                  | 0.000                               |         |
| 27                | 490.90                 | 40.783                            | -0.344                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.396                               |         |
| 28                | 490.90                 | 40.783                            | 0.000                                 | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.740                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-6.159</b>                         |                       | <b>2.838</b>       |                         | <b>5.676</b>         |                            | <b>0.000</b>            | <b>2.771</b>                        |         |
| 29                | 490.50                 | 40.267                            | -0.516                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.224                               |         |
| 30                | 490.00                 | 39.407                            | -0.860                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.000                               |         |
| 31                | 489.50                 | 38.547                            | -0.860                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.000                               |         |
| <b>02-01-1999</b> | 489.10                 | 37.859                            | -0.688                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.052                               |         |
| 2                 | 488.60                 | 37.054                            | -0.805                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.000                               |         |
| 3                 | 488.20                 | 36.439                            | -0.615                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.126                               |         |
| 4                 | 487.90                 | 35.978                            | -0.461                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.279                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-4.804</b>                         |                       | <b>3.455</b>       |                         | <b>1.728</b>         |                            | <b>0.000</b>            | <b>0.682</b>                        |         |
| 5                 | 487.70                 | 35.671                            | -0.307                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.433                               |         |
| 6                 | 487.50                 | 35.210                            | -0.461                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.279                               |         |
| 7                 | 487.30                 | 35.056                            | -0.154                                | 150                   | 0.3702             | 150                     | 0.3702               |                            | 0.0000                  | 0.587                               |         |
| 8                 | 487.00                 | 34.595                            | -0.461                                | 150                   | 0.3702             | 150                     | 0.3702               |                            | 0.0000                  | 0.279                               |         |
| 9                 | 486.40                 | 33.520                            | -1.076                                | 150                   | 0.3702             | 150                     | 0.3702               |                            | 0.0000                  | 0.000                               |         |
| 10                | 486.40                 | 33.520                            | 0.000                                 | 50                    | 0.1234             | 50                      | 0.1234               |                            | 0.0000                  | 0.247                               |         |
| 11                | 486.30                 | 33.520                            | 0.000                                 | 50                    | 0.1234             | 50                      | 0.1234               |                            | 0.0000                  | 0.247                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-2.459</b>                         |                       | <b>2.345</b>       |                         | <b>1.851</b>         |                            | <b>0.000</b>            | <b>2.072</b>                        |         |
| 12                | 486.20                 | 33.366                            | -0.154                                |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.093                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 13                | 486.20                 | 33.366                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.247                               |         |
| 14                | 486.10                 | 33.212                            | -0.154                                |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.093                               |         |
| 15                | 485.90                 | 32.905                            | -0.307                                |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.000                               |         |
| 16                | 485.70                 | 32.598                            | -0.307                                |                       | 0.0000             | 600                     | 1.4807               |                            | 0.0000                  | 1.173                               |         |
| 17                | 484.70                 | 31.215                            | -1.382                                |                       | 0.0000             | 600                     | 1.4807               |                            | 0.0000                  | 0.099                               |         |
| 18                | 484.00                 | 30.260                            | -0.956                                | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 1.019                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-3.260</b>                         |                       | <b>0.494</b>       |                         | <b>5.429</b>         |                            | <b>0.000</b>            | <b>2.724</b>                        |         |
| 19                | 483.10                 | 28.895                            | -1.365                                | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 0.609                               |         |
| 20                | 481.60                 | 27.096                            | -1.799                                | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 0.175                               |         |
| 21                | 480.30                 | 25.530                            | -1.566                                | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 0.408                               |         |
| 22                | 479.20                 | 24.204                            | -1.325                                | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 0.649                               |         |
| 23                | 478.30                 | 23.224                            | -0.980                                | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 0.994                               |         |
| 24                | 477.20                 | 22.063                            | -1.161                                | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 0.813                               |         |
| 25                | 476.10                 | 20.901                            | -1.161                                | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 0.813                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-9.358</b>                         |                       | <b>3.455</b>       |                         | <b>10.365</b>        |                            | <b>0.000</b>            | <b>4.462</b>                        |         |
| 26                | 475.00                 | 19.816                            | -1.085                                | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 0.889                               |         |
| 27                | 473.50                 | 18.396                            | -1.421                                | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 0.554                               |         |
| 28                | 472.00                 | 17.052                            | -1.343                                | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 0.631                               |         |
| <b>03-01-1999</b> | 470.50                 | 15.864                            | -1.188                                | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 0.786                               |         |
| 2                 | 469.30                 | 14.913                            | -0.951                                | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 1.024                               |         |
| 3                 | 468.40                 | 14.292                            | -0.621                                | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 1.353                               |         |
| 4                 | 467.30                 | 13.547                            | -0.745                                | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 1.229                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-7.355</b>                         |                       | <b>3.455</b>       |                         | <b>10.365</b>        |                            | <b>0.000</b>            | <b>6.465</b>                        |         |
| 5                 | 465.70                 | 12.483                            | -1.063                                | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 0.911                               |         |
| 6                 | 464.30                 | 11.679                            | -0.804                                | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 1.170                               |         |
| 7                 | 462.60                 | 10.703                            | -0.976                                | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 0.998                               |         |
| 8                 | 460.50                 | 9.690                             | -1.013                                | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 0.961                               |         |
| 9                 | 460.20                 | 9.545                             | -0.145                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.596                               |         |
| 10                | 459.70                 | 9.304                             | -0.241                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.499                               |         |
| 11                | 459.00                 | 8.987                             | -0.317                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.423                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b>      |                        |                                   | <b>-4.560</b>                         |                       | <b>3.455</b>       |                         | <b>6.663</b>         |                            | <b>0.000</b>            | <b>5.559</b>                        |         |
| 12                | 458.50                 | 8.780                             | -0.207                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.533                               |         |
| 13                | 458.00                 | 8.573                             | -0.207                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.533                               |         |
| 14                | 457.40                 | 8.324                             | -0.249                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.492                               |         |
| 15                | 456.80                 | 8.075                             | -0.249                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.492                               |         |
| 16                | 456.10                 | 7.785                             | -0.290                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.450                               |         |
| 17                | 455.30                 | 7.486                             | -0.299                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.441                               |         |
| 18                | 454.60                 | 7.286                             | -0.200                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.541                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.701</b>                         |                       | <b>2.468</b>       |                         | <b>2.715</b>         |                            | <b>0.000</b>            | <b>3.482</b>                        |         |
| 19                | 453.90                 | 7.053                             | -0.233                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.507                               |         |
| 20                | 453.20                 | 6.820                             | -0.233                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.507                               |         |
| 21                | 452.60                 | 6.632                             | -0.188                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.552                               |         |
| 22                | 452.20                 | 6.522                             | -0.110                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.630                               |         |
| 23                | 451.60                 | 6.357                             | -0.165                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.575                               |         |
| 24                | 451.00                 | 6.192                             | -0.165                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.575                               |         |
| 25                | 449.90                 | 5.890                             | -0.303                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.438                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.396</b>                         |                       | <b>0.000</b>       |                         | <b>5.183</b>         |                            | <b>0.000</b>            | <b>3.786</b>                        |         |
| 26                | 449.20                 | 5.706                             | -0.184                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.556                               |         |
| 27                | 448.50                 | 5.532                             | -0.173                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.567                               |         |
| 28                | 447.90                 | 5.384                             | -0.148                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.592                               |         |
| 29                | 447.10                 | 5.186                             | -0.198                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.542                               |         |
| 30                | 446.40                 | 5.013                             | -0.173                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.567                               |         |
| 31                | 445.50                 | 4.793                             | -0.220                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.520                               |         |
| <b>04-01-1999</b> | 444.80                 | 4.622                             | -0.170                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.570                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.267</b>                         |                       | <b>2.961</b>       |                         | <b>2.221</b>         |                            | <b>0.000</b>            | <b>3.915</b>                        |         |
| 2                 | 444.00                 | 4.428                             | -0.195                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.546                               |         |
| 3                 | 443.30                 | 4.257                             | -0.170                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.570                               |         |
| 4                 | 442.50                 | 4.061                             | -0.196                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.544                               |         |
| 5                 | 441.80                 | 3.888                             | -0.173                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.567                               |         |
| 6                 | 440.90                 | 3.666                             | -0.222                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.518                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 7                 | 440.00                 | 3.443                             | -0.222                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.518                               |         |
| 8                 | 438.90                 | 3.181                             | -0.263                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.478                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.442</b>                         |                       | <b>0.000</b>       |                         | <b>5.183</b>         |                            | <b>0.000</b>            | <b>3.741</b>                        |         |
| 9                 | 438.00                 | 2.968                             | -0.212                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.528                               |         |
| 10                | 436.70                 | 2.662                             | -0.306                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.434                               |         |
| 11                | 436.00                 | 2.499                             | -0.163                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.577                               |         |
| 12                | 435.30                 | 2.336                             | -0.162                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.578                               |         |
| 13                | 434.10                 | 2.058                             | -0.278                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.462                               |         |
| 14                | 433.00                 | 1.804                             | -0.255                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.486                               |         |
| 15                | 432.00                 | 1.576                             | -0.228                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.513                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.605</b>                         |                       | <b>0.000</b>       |                         | <b>5.183</b>         |                            | <b>0.000</b>            | <b>3.578</b>                        |         |
| 16                | 431.00                 | 1.348                             | -0.228                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.513                               |         |
| 17                | 429.80                 | 1.075                             | -0.273                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.467                               |         |
| 18                | 428.50                 | 0.783                             | -0.291                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.449                               |         |
| 19                | 428.30                 | 0.739                             | -0.045                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.696                               |         |
| 20                | 428.00                 | 0.671                             | -0.067                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.673                               |         |
| 21                | 427.70                 | 0.604                             | -0.067                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22                | 427.50                 | 0.560                             | -0.045                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.016</b>                         |                       | <b>0.000</b>       |                         | <b>3.702</b>         |                            | <b>0.000</b>            | <b>2.797</b>                        |         |
| 23                | 427.20                 | 0.492                             | -0.067                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24                | 427.00                 | 0.448                             | -0.045                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                | 426.90                 | 0.425                             | -0.022                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26                | 426.80                 | 0.403                             | -0.022                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27                | 426.60                 | 0.358                             | -0.045                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28                | 426.50                 | 0.336                             | -0.022                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29                | 426.40                 | 0.310                             | -0.026                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.250</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 30                | 426.20                 | 0.232                             | -0.077                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>05-01-1999</b> | 426.20                 | 0.232                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 426.10                 | 0.232                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 3            | 426.00                 | 0.207                             | -0.026                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4            | 426.00                 | 0.207                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5            | 426.00                 | 0.207                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6            | 425.90                 | 0.181                             | -0.026                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-0.129</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 7            | 425.90                 | 0.181                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8            | 425.90                 | 0.181                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9            | 425.90                 | 0.181                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10           | 428.40                 | 0.739                             | 0.558                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.558                               |         |
| 11           | 428.60                 | 0.806                             | 0.067                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.067                               |         |
| 12           | 432.50                 | 1.690                             | 0.884                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.884                               |         |
| 13           | 432.80                 | 1.758                             | 0.068                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.068                               |         |
| <b>TOTAL</b> |                        |                                   | <b>1.577</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.577</b>                        |         |
| 14           | 438.20                 | 3.016                             | 1.257                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.257                               |         |
| 15           | 439.30                 | 3.275                             | 0.259                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.259                               |         |
| 16           | 439.50                 | 3.322                             | 0.047                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.047                               |         |
| 17           | 439.90                 | 3.419                             | 0.097                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.097                               |         |
| 18           | 440.30                 | 3.517                             | 0.099                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.099                               |         |
| 19           | 440.60                 | 3.591                             | 0.074                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.074                               |         |
| 20           | 441.10                 | 3.715                             | 0.124                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.124                               |         |
| <b>TOTAL</b> |                        |                                   | <b>1.957</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.957</b>                        |         |
| 21           | 441.70                 | 3.863                             | 0.148                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.148                               |         |
| 22           | 446.20                 | 4.963                             | 1.100                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.100                               |         |
| 23           | 447.00                 | 5.161                             | 0.198                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.198                               |         |
| 24           | 447.90                 | 5.384                             | 0.223                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.223                               |         |
| 25           | 448.50                 | 5.532                             | 0.148                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.148                               |         |
| 26           | 448.90                 | 5.631                             | 0.099                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.099                               |         |
| 27           | 449.10                 | 5.681                             | 0.049                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.049                               |         |
| <b>TOTAL</b> |                        |                                   | <b>1.966</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.966</b>                        |         |
| 28           | 449.30                 | 5.730                             | 0.049                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.049                               |         |



| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 29                | 449.40                 | 5.755                             | 0.025                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.025                               |         |
| 30                | 449.40                 | 5.755                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31                | 449.50                 | 5.780                             | 0.025                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.025                               |         |
| <b>06-01-1999</b> | 449.60                 | 5.807                             | 0.028                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.028                               |         |
| 2                 | 449.80                 | 5.862                             | 0.055                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.055                               |         |
| 3                 | 449.90                 | 5.890                             | 0.028                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.028                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.209</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.209</b>                        |         |
| 4                 | 449.90                 | 5.890                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5                 | 450.10                 | 5.945                             | 0.055                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.055                               |         |
| 6                 | 450.20                 | 5.972                             | 0.028                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.028                               |         |
| 7                 | 450.20                 | 5.972                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8                 | 450.30                 | 6.000                             | 0.028                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.028                               |         |
| 9                 | 450.40                 | 6.027                             | 0.028                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.028                               |         |
| 10                | 450.90                 | 6.165                             | 0.138                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.138                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.275</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.275</b>                        |         |
| 11                | 452.30                 | 6.550                             | 0.385                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.385                               |         |
| 12                | 454.40                 | 7.220                             | 0.670                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.670                               |         |
| 13                | 457.50                 | 8.324                             | 1.104                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.104                               |         |
| 14                | 459.30                 | 9.111                             | 0.787                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.787                               |         |
| 15                | 467.00                 | 13.343                            | 4.232                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 4.232                               |         |
| 16                | 468.20                 | 14.156                            | 0.813                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.813                               |         |
| 17                | 468.90                 | 14.631                            | 0.474                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.474                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>8.466</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>8.466</b>                        |         |
| 18                | 470.00                 | 15.468                            | 0.837                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.837                               |         |
| 19                | 470.10                 | 15.547                            | 0.079                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.079                               |         |
| 20                | 470.30                 | 15.705                            | 0.158                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.158                               |         |
| 21                | 470.90                 | 16.181                            | 0.475                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.475                               |         |
| 22                | 471.30                 | 16.498                            | 0.317                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.317                               |         |
| 23                | 471.50                 | 16.656                            | 0.158                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.158                               |         |
| 24                | 471.60                 | 16.735                            | 0.079                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.079                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b>      |                        |                                   | <b>2.105</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>2.105</b>                        |         |
| 25                | 472.70                 | 17.638                            | 0.902                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.902                               |         |
| 26                | 473.30                 | 18.206                            | 0.568                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.568                               |         |
| 27                | 474.10                 | 18.869                            | 0.663                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.663                               |         |
| 28                | 477.50                 | 22.380                            | 3.511                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 3.511                               |         |
| 29                | 479.00                 | 23.963                            | 1.584                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.584                               |         |
| 30                | 481.00                 | 26.373                            | 2.410                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.410                               |         |
| <b>07-01-1999</b> | 483.10                 | 28.895                            | 2.522                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.522                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>12.159</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>12.159</b>                       |         |
| 2                 | 484.00                 | 30.260                            | 1.365                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.365                               |         |
| 3                 | 484.40                 | 30.806                            | 0.546                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.546                               |         |
| 4                 | 484.70                 | 31.215                            | 0.410                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.410                               |         |
| 5                 | 485.20                 | 31.898                            | 0.683                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.683                               |         |
| 6                 | 488.80                 | 37.361                            | 5.464                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 5.464                               |         |
| 7                 | 490.00                 | 39.407                            | 2.045                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.045                               |         |
| 8                 | 490.50                 | 40.267                            | 0.860                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.860                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>11.372</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>11.372</b>                       |         |
| 9                 | 490.70                 | 40.611                            | 0.344                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.344                               |         |
| 10                | 490.80                 | 40.783                            | 0.172                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.172                               |         |
| 11                | 491.40                 | 41.815                            | 1.032                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.032                               |         |
| 12                | 495.10                 | 48.915                            | 7.101                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 7.101                               |         |
| 13                | 498.40                 | 55.868                            | 6.953                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 6.953                               |         |
| 13                | 500.70                 | 63.997                            | 8.129                                 |                       | 0.0000             |                         | 0.0000               | 1137                       | 2.8060                  | 10.935                              |         |
| 14                | 501.90                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 5050                       | 12.4629                 | 12.463                              |         |
| 15                | 501.00                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1927                       | 4.7556                  | 4.756                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>23.386</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>20.025</b>           | <b>43.411</b>                       |         |
| 16                | 500.60                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 908                        | 2.2408                  | 2.241                               |         |
| 17                | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498                        | 1.2290                  | 1.229                               |         |
| 18                | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 19                | 500.50                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 694                        | 1.7127                  | 1.713                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 20                | 502.67                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1927                       | 4.7556                  | 4.756                               |         |
| 21                | 502.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 6730                       | 16.6089                 | 16.609                              |         |
| 22                | 501.60                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 3893                       | 9.6075                  | 9.608                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>36.582</b>           | <b>36.582</b>                       |         |
| 23                | 501.80                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 4626                       | 11.4165                 | 11.416                              |         |
| 24                | 501.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 3200                       | 7.8973                  | 7.897                               |         |
| 25                | 501.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 2544                       | 6.2783                  | 6.278                               |         |
| 25                | 501.00                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 1927                       | 4.7556                  | 5.002                               |         |
| 26                | 500.80                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 1388                       | 3.4254                  | 3.672                               |         |
| 27                | 500.80                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 1388                       | 3.4254                  | 3.672                               |         |
| 28                | 500.70                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 1137                       | 2.8060                  | 3.053                               |         |
| 29                | 501.00                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 1927                       | 4.7556                  | 5.002                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>1.234</b>       |                         | <b>0.000</b>         |                            | <b>33.344</b>           | <b>34.578</b>                       |         |
| 30                | 502.00                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 5450                       | 13.4500                 | 13.697                              |         |
| 31                | 501.00                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 1927                       | 4.7556                  | 5.002                               |         |
| <b>08-01-1999</b> | 500.80                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 1388                       | 3.4254                  | 3.672                               |         |
| 2                 | 500.70                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 1122                       | 2.7690                  | 3.016                               |         |
| 3                 | 500.50                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 694                        | 1.7127                  | 1.960                               |         |
| 4                 | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 498                        | 1.2290                  | 1.476                               |         |
| 5                 | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 498                        | 1.2290                  | 1.476                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.987</b>       |                         | <b>0.740</b>         |                            | <b>28.571</b>           | <b>30.298</b>                       |         |
| 6                 | 500.30                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 308                        | 0.7601                  | 1.130                               |         |
| 7                 | 500.50                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 694                        | 1.7127                  | 2.083                               |         |
| 8                 | 500.50                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 694                        | 1.7127                  | 2.145                               |         |
| 9                 | 500.40                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 498                        | 1.2290                  | 1.661                               |         |
| 10                | 500.30                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 308                        | 0.7601                  | 1.192                               |         |
| 11                | 500.20                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 173                        | 0.4269                  | 0.859                               |         |
| 12                | 500.20                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 173                        | 0.4269                  | 0.859                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>2.900</b>       |                         | <b>0.000</b>         |                            | <b>7.029</b>            | <b>9.928</b>                        |         |
| 13                | 503.00                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 10000                      | 24.6790                 | 25.111                              |         |

| Date              | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 14                | 501.50                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 3527                       | 8.7043                  | 8.828                               |         |
| 15                | 501.00                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 1927                       | 4.7556                  | 4.879                               |         |
| 16                | 501.10                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 2216                       | 5.4689                  | 5.716                               |         |
| 17                | 500.80                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 1388                       | 3.4254                  | 3.672                               |         |
| 18                | 500.50                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 694                        | 1.7127                  | 1.960                               |         |
| 19                | 500.50                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 694                        | 1.7127                  | 1.960                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>1.666</b>       |                         | <b>0.000</b>         |                            | <b>50.459</b>           | <b>52.124</b>                       |         |
| 20                | 500.30                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 308                        | 0.7601                  | 1.007                               |         |
| 21                | 500.30                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 308                        | 0.7601                  | 1.130                               |         |
| 22                | 500.40                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 498                        | 1.2290                  | 1.599                               |         |
| 23                | 501.10                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 2216                       | 5.4689                  | 5.839                               |         |
| 24                | 501.00                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 1927                       | 4.7556                  | 5.126                               |         |
| 25                | 501.20                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 2544                       | 6.2783                  | 6.525                               |         |
| 26                | 501.00                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 1927                       | 4.7556                  | 5.002                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>2.221</b>       |                         | <b>0.000</b>         |                            | <b>24.008</b>           | <b>26.229</b>                       |         |
| 27                | 502.50                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 7451                       | 18.3883                 | 18.512                              |         |
| 28                | 501.20                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 2544                       | 6.2783                  | 6.402                               |         |
| 29                | 500.80                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 1376                       | 3.3958                  | 3.519                               |         |
| 30                | 500.80                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 1376                       | 3.3958                  | 3.519                               |         |
| 31                | 502.00                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 5450                       | 13.4500                 | 13.573                              |         |
| <b>09-01-1999</b> | 501.50                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 3527                       | 8.7043                  | 8.828                               |         |
| 2                 | 501.00                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 1927                       | 4.7556                  | 4.879                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.864</b>       |                         | <b>0.000</b>         |                            | <b>58.368</b>           | <b>59.232</b>                       |         |
| 3                 | 501.00                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 1927                       | 4.7556                  | 4.879                               |         |
| 4                 | 500.70                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 1137                       | 2.8060                  | 2.929                               |         |
| 5                 | 500.50                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 694                        | 1.7127                  | 1.960                               |         |
| 6                 | 500.40                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 498                        | 1.2290                  | 1.476                               |         |
| 7                 | 500.30                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 308                        | 0.7601                  | 1.007                               |         |
| 8                 | 500.30                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 308                        | 0.7601                  | 1.007                               |         |
| 9                 | 500.20                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 173                        | 0.4269                  | 0.674                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>1.481</b>       |                         | <b>0.000</b>         |                            | <b>12.451</b>           | <b>13.931</b>                       |         |
| 10                | 499.90                 | 62.844                            | -1.153                                | 250                   | 0.6170             | 700                     | 1.7275               |                            | 0.0000                  | 1.192                               |         |
| 11                | 499.60                 | 61.691                            | -1.153                                | 250                   | 0.6170             | 700                     | 1.7275               |                            | 0.0000                  | 1.192                               |         |
| 12                | 499.00                 | 58.233                            | -3.458                                | 250                   | 0.6170             | 700                     | 1.7275               |                            | 0.0000                  | 0.000                               |         |
| 13                | 499.90                 | 62.844                            | 4.611                                 | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 7.696                               |         |
| 14                | 501.20                 | 63.997                            | 1.153                                 | 200                   | 0.4936             | 700                     | 1.7275               | 2544                       | 6.2783                  | 9.652                               |         |
| 15                | 501.00                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 200                     | 0.4936               | 1927                       | 4.7556                  | 5.743                               |         |
| 16                | 500.80                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 200                     | 0.4936               | 1388                       | 3.4254                  | 4.413                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>3.949</b>       |                         | <b>10.365</b>        |                            | <b>14.459</b>           | <b>29.887</b>                       |         |
| 17                | 500.80                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 200                     | 0.4936               | 1388                       | 3.4254                  | 4.413                               |         |
| 18                | 500.70                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 200                     | 0.4936               | 1137                       | 2.8060                  | 3.793                               |         |
| 19                | 500.50                 | 63.997                            | 0.000                                 | 225                   | 0.5553             | 200                     | 0.4936               | 694                        | 1.7127                  | 2.762                               |         |
| 20                | 500.30                 | 63.997                            | 0.000                                 | 225                   | 0.5553             | 200                     | 0.4936               | 308                        | 0.7601                  | 1.809                               |         |
| 21                | 500.20                 | 63.997                            | 0.000                                 | 225                   | 0.5553             | 200                     | 0.4936               | 173                        | 0.4269                  | 1.476                               |         |
| 22                | 500.20                 | 63.997                            | 0.000                                 | 225                   | 0.5553             | 200                     | 0.4936               | 173                        | 0.4269                  | 1.476                               |         |
| 23                | 500.20                 | 63.997                            | 0.000                                 | 225                   | 0.5553             | 300                     | 0.7404               | 173                        | 0.4269                  | 1.723                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>3.764</b>       |                         | <b>3.702</b>         |                            | <b>9.985</b>            | <b>17.450</b>                       |         |
| 24                | 504.56                 | 63.997                            | 0.000                                 | 225                   | 0.5553             | 200                     | 0.4936               | 1388                       | 3.4254                  | 4.474                               |         |
| 25                | 509.75                 | 63.997                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               | 77418                      | 191.0596                | 191.553                             |         |
| 26                | 501.70                 | 63.997                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               | 4260                       | 10.5132                 | 11.007                              |         |
| 27                | 501.00                 | 63.997                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               | 1927                       | 4.7556                  | 5.249                               |         |
| 28                | 501.40                 | 63.997                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               | 3200                       | 7.8973                  | 8.391                               |         |
| 29                | 501.00                 | 63.997                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               | 1927                       | 4.7556                  | 5.249                               |         |
| 30                | 500.60                 | 63.997                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               | 908                        | 2.2408                  | 2.734                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.555</b>       |                         | <b>3.455</b>         |                            | <b>224.648</b>          | <b>228.658</b>                      |         |
| <b>10-01-1999</b> | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               | 498                        | 1.2290                  | 1.723                               |         |
| 2                 | 500.80                 | 63.997                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               | 1388                       | 3.4254                  | 3.919                               |         |
| 3                 | 500.60                 | 63.997                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               | 908                        | 2.2408                  | 2.734                               |         |
| 4                 | 500.60                 | 63.997                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               | 908                        | 2.2408                  | 2.734                               |         |
| 5                 | 501.10                 | 63.997                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               | 2216                       | 5.4689                  | 5.962                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 6            | 500.80                 | 63.997                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               | 1388                       | 3.4254                  | 3.919                               |         |
| 7            | 500.50                 | 63.997                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               | 694                        | 1.7127                  | 2.206                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>3.455</b>         |                            | <b>19.743</b>           | <b>23.198</b>                       |         |
| 8            | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               | 498                        | 1.2290                  | 1.723                               |         |
| 9            | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               | 308                        | 0.7601                  | 1.254                               |         |
| 10           | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               | 308                        | 0.7601                  | 1.254                               |         |
| 11           | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 173                        | 0.4269                  | 0.674                               |         |
| 12           | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 173                        | 0.4269                  | 0.674                               |         |
| 13           | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 173                        | 0.4269                  | 0.674                               |         |
| 14           | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 173                        | 0.4269                  | 0.674                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>2.468</b>         |                            | <b>4.457</b>            | <b>6.925</b>                        |         |
| 15           | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 498                        | 1.2290                  | 1.476                               |         |
| 16           | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 308                        | 0.7601                  | 1.007                               |         |
| 17           | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 308                        | 0.7601                  | 1.007                               |         |
| 18           | 500.50                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 694                        | 1.7127                  | 1.960                               |         |
| 19           | 506.53                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 28306                      | 69.8563                 | 70.103                              |         |
| 20           | 502.40                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 8128                       | 20.0591                 | 20.306                              |         |
| 21           | 501.10                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 2216                       | 5.4689                  | 5.716                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>1.728</b>         |                            | <b>99.846</b>           | <b>101.574</b>                      |         |
| 22           | 500.80                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 1388                       | 3.4254                  | 3.672                               |         |
| 23           | 500.60                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 908                        | 2.2408                  | 2.488                               |         |
| 24           | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 498                        | 1.2290                  | 1.476                               |         |
| 25           | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 308                        | 0.7601                  | 1.007                               |         |
| 26           | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 308                        | 0.7601                  | 1.007                               |         |
| 27           | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 308                        | 0.7601                  | 1.007                               |         |
| 28           | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 173                        | 0.4269                  | 0.674                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>1.728</b>         |                            | <b>9.603</b>            | <b>11.330</b>                       |         |
| 29           | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 173                        | 0.4269                  | 0.674                               |         |
| 30           | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 173                        | 0.4269                  | 0.674                               |         |
| 31           | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 173                        | 0.4269                  | 0.674                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 11-01-1999   | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 173                        | 0.4269                  | 0.674                               |         |
| 2            | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 308                        | 0.7601                  | 1.007                               |         |
| 3            | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 308                        | 0.7601                  | 1.007                               |         |
| 4            | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 308                        | 0.7601                  | 1.007                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>1.728</b>         |                            | <b>3.988</b>            | <b>5.716</b>                        |         |
| 5            | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 273                        | 0.6737                  | 0.921                               |         |
| 6            | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 273                        | 0.6737                  | 0.921                               |         |
| 7            | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 273                        | 0.6737                  | 0.921                               |         |
| 8            | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 273                        | 0.6737                  | 0.921                               |         |
| 9            | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 273                        | 0.6737                  | 0.921                               |         |
| 10           | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 273                        | 0.6737                  | 0.921                               |         |
| 11           | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 273                        | 0.6737                  | 0.921                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>1.728</b>         |                            | <b>4.716</b>            | <b>6.444</b>                        |         |
| 12           | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 273                        | 0.6737                  | 0.921                               |         |
| 13           | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 14           | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 15           | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 16           | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 17           | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 18           | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.247</b>         |                            | <b>2.162</b>            | <b>2.409</b>                        |         |
| 19           | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 20           | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 21           | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 22           | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 23           | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 24           | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 25           | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>1.111</b>            | <b>1.111</b>                        |         |
| 26           | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 27                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 28                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 29                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 30                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| <b>12-01-1999</b> | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 2                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>1.111</b>            | <b>1.111</b>                        |         |
| 3                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 4                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 5                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 6                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 7                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 8                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 9                 | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>1.111</b>            | <b>1.111</b>                        |         |
| 10                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 11                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 12                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 13                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 14                | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 15                | 500.10                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.282                               |         |
| 16                | 500.10                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.282                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.247</b>       |                         | <b>0.000</b>         |                            | <b>1.111</b>            | <b>1.358</b>                        |         |
| 17                | 500.10                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.282                               |         |
| 18                | 500.10                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.282                               |         |
| 19                | 500.10                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.282                               |         |
| 20                | 500.10                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.282                               |         |
| 21                | 500.10                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.405                               |         |
| 22                | 500.10                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.405                               |         |
| 23                | 500.00                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |



| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>1.234</b>       |                         | <b>0.000</b>         |                            | <b>0.952</b>            | <b>2.186</b>                        |         |
| 24                | 500.00                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 25                | 500.00                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 26                | 499.90                 | 62.844                            | -1.153                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27                | 499.90                 | 62.844                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 28                | 499.90                 | 62.844                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 29                | 499.80                 | 62.844                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 30                | 499.70                 | 62.268                            | -0.576                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31                | 499.40                 | 60.539                            | -1.729                                | 100                   | 0.2468             | 350                     | 0.8638               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-3.458</b>                         |                       | <b>1.974</b>       |                         | <b>0.864</b>         |                            | <b>0.000</b>            | <b>1.234</b>                        |         |
| <b>01-01-2000</b> | 499.10                 | 58.810                            | -1.729                                | 100                   | 0.2468             | 350                     | 0.8638               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 498.80                 | 56.504                            | -2.305                                | 100                   | 0.2468             | 350                     | 0.8638               |                            | 0.0000                  | 0.000                               |         |
| 3                 | 498.60                 | 56.292                            | -0.212                                | 100                   | 0.2468             | 350                     | 0.8638               |                            | 0.0000                  | 0.899                               |         |
| 4                 | 498.50                 | 56.080                            | -0.212                                | 100                   | 0.2468             | 350                     | 0.8638               |                            | 0.0000                  | 0.899                               |         |
| 5                 | 498.30                 | 55.656                            | -0.424                                | 100                   | 0.2468             | 350                     | 0.8638               |                            | 0.0000                  | 0.687                               |         |
| 6                 | 498.00                 | 55.020                            | -0.636                                | 100                   | 0.2468             | 350                     | 0.8638               |                            | 0.0000                  | 0.475                               |         |
| 7                 | 497.60                 | 53.960                            | -1.060                                | 100                   | 0.2468             | 350                     | 0.8638               |                            | 0.0000                  | 0.050                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-6.579</b>                         |                       | <b>1.728</b>       |                         | <b>6.046</b>         |                            | <b>0.000</b>            | <b>3.009</b>                        |         |
| 8                 | 497.40                 | 53.748                            | -0.212                                | 100                   | 0.2468             | 350                     | 0.8638               |                            | 0.0000                  | 0.899                               |         |
| 9                 | 497.10                 | 53.112                            | -0.636                                | 100                   | 0.2468             | 350                     | 0.8638               |                            | 0.0000                  | 0.475                               |         |
| 10                | 496.80                 | 52.476                            | -0.636                                | 100                   | 0.2468             | 350                     | 0.8638               |                            | 0.0000                  | 0.475                               |         |
| 11                | 496.20                 | 51.204                            | -1.272                                | 100                   | 0.2468             | 650                     | 1.6041               |                            | 0.0000                  | 0.579                               |         |
| 12                | 495.60                 | 49.932                            | -1.272                                | 100                   | 0.2468             | 600                     | 1.4807               |                            | 0.0000                  | 0.455                               |         |
| 13                | 494.90                 | 48.521                            | -1.411                                | 100                   | 0.2468             | 600                     | 1.4807               |                            | 0.0000                  | 0.316                               |         |
| 14                | 494.10                 | 46.941                            | -1.579                                | 100                   | 0.2468             | 600                     | 1.4807               |                            | 0.0000                  | 0.148                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-7.019</b>                         |                       | <b>1.728</b>       |                         | <b>8.638</b>         |                            | <b>0.000</b>            | <b>3.347</b>                        |         |
| 15                | 493.30                 | 45.362                            | -1.579                                | 100                   | 0.2468             | 600                     | 1.4807               |                            | 0.0000                  | 0.148                               |         |
| 16                | 492.70                 | 44.178                            | -1.184                                | 100                   | 0.2468             | 600                     | 1.4807               |                            | 0.0000                  | 0.543                               |         |
| 17                | 492.00                 | 42.675                            | -1.503                                | 100                   | 0.2468             | 600                     | 1.4807               |                            | 0.0000                  | 0.225                               |         |
| 18                | 491.50                 | 41.987                            | -0.688                                | 100                   | 0.2468             | 600                     | 1.4807               |                            | 0.0000                  | 1.040                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 19                | 491.00                 | 41.127                            | -0.860                                | 100                   | 0.2468             | 800                     | 1.9743               |                            | 0.0000                  | 1.361                               |         |
| 20                | 489.50                 | 38.547                            | -2.580                                | 100                   | 0.2468             | 800                     | 1.9743               |                            | 0.0000                  | 0.000                               |         |
| 21                | 488.50                 | 36.900                            | -1.647                                | 100                   | 0.2468             | 800                     | 1.9743               |                            | 0.0000                  | 0.575                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-10.041</b>                        |                       | <b>1.728</b>       |                         | <b>11.846</b>        |                            | <b>0.000</b>            | <b>3.891</b>                        |         |
| 22                | 487.80                 | 35.825                            | -1.076                                | 100                   | 0.2468             | 800                     | 1.9743               |                            | 0.0000                  | 1.145                               |         |
| 23                | 486.80                 | 34.288                            | -1.537                                | 100                   | 0.2468             | 800                     | 1.9743               |                            | 0.0000                  | 0.684                               |         |
| 24                | 485.90                 | 32.905                            | -1.383                                | 100                   | 0.2468             | 800                     | 1.9743               |                            | 0.0000                  | 0.838                               |         |
| 25                | 484.40                 | 30.806                            | -2.099                                | 100                   | 0.2468             | 800                     | 1.9743               |                            | 0.0000                  | 0.122                               |         |
| 26                | 483.50                 | 29.577                            | -1.229                                | 100                   | 0.2468             | 800                     | 1.9743               |                            | 0.0000                  | 0.993                               |         |
| 27                | 483.00                 | 28.895                            | -0.683                                | 100                   | 0.2468             | 800                     | 1.9743               |                            | 0.0000                  | 1.539                               |         |
| 28                | 482.00                 | 27.457                            | -1.437                                | 100                   | 0.2468             | 100                     | 0.2468               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-9.443</b>                         |                       | <b>1.728</b>       |                         | <b>12.093</b>        |                            | <b>0.000</b>            | <b>5.321</b>                        |         |
| 29                | 481.50                 | 26.975                            | -0.482                                | 100                   | 0.2468             | 100                     | 0.2468               |                            | 0.0000                  | 0.012                               |         |
| 30                | 480.90                 | 26.252                            | -0.723                                | 100                   | 0.2468             | 100                     | 0.2468               |                            | 0.0000                  | 0.000                               |         |
| 31                | 480.90                 | 26.252                            | 0.000                                 | 100                   | 0.2468             | 100                     | 0.2468               |                            | 0.0000                  | 0.494                               |         |
| <b>02-01-2000</b> | 480.90                 | 26.252                            | 0.000                                 |                       | 0.0000             | 250                     | 0.6170               |                            | 0.0000                  | 0.617                               |         |
| 2                 | 480.70                 | 26.012                            | -0.241                                |                       | 0.0000             | 250                     | 0.6170               |                            | 0.0000                  | 0.376                               |         |
| 3                 | 480.50                 | 25.771                            | -0.241                                |                       | 0.0000             | 250                     | 0.6170               |                            | 0.0000                  | 0.376                               |         |
| 4                 | 480.30                 | 25.530                            | -0.241                                |                       | 0.0000             | 250                     | 0.6170               |                            | 0.0000                  | 0.376                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.928</b>                         |                       | <b>0.740</b>       |                         | <b>3.208</b>         |                            | <b>0.000</b>            | <b>2.250</b>                        |         |
| 5                 | 480.00                 | 25.168                            | -0.361                                |                       | 0.0000             | 250                     | 0.6170               |                            | 0.0000                  | 0.256                               |         |
| 6                 | 480.30                 | 25.530                            | 0.361                                 |                       | 0.0000             | 250                     | 0.6170               |                            | 0.0000                  | 0.978                               |         |
| 7                 | 480.90                 | 26.252                            | 0.723                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.723                               |         |
| 8                 | 481.00                 | 26.373                            | 0.120                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.120                               |         |
| 9                 | 481.20                 | 26.614                            | 0.241                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.241                               |         |
| 10                | 481.30                 | 26.734                            | 0.120                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.120                               |         |
| 11                | 481.40                 | 26.855                            | 0.120                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.120                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>1.325</b>                          |                       | <b>0.000</b>       |                         | <b>1.234</b>         |                            | <b>0.000</b>            | <b>2.559</b>                        |         |
| 12                | 481.50                 | 26.975                            | 0.120                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.120                               |         |
| 13                | 481.60                 | 27.096                            | 0.120                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.120                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 14                | 481.70                 | 27.216                            | 0.120                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.120                               |         |
| 15                | 481.70                 | 27.216                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16                | 481.80                 | 27.337                            | 0.120                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.120                               |         |
| 17                | 481.80                 | 27.337                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18                | 482.00                 | 27.457                            | 0.120                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.120                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.602</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.602</b>                        |         |
| 19                | 482.40                 | 28.076                            | 0.618                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.618                               |         |
| 20                | 482.60                 | 28.349                            | 0.273                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.273                               |         |
| 21                | 482.80                 | 28.622                            | 0.273                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.520                               |         |
| 22                | 482.60                 | 28.349                            | -0.273                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23                | 482.40                 | 28.076                            | -0.273                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24                | 482.20                 | 27.819                            | -0.257                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                | 482.00                 | 27.457                            | -0.361                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>1.234</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.411</b>                        |         |
| 26                | 481.90                 | 27.457                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 27                | 481.70                 | 27.216                            | -0.241                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.006                               |         |
| 28                | 481.50                 | 26.975                            | -0.241                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.006                               |         |
| 29                | 481.30                 | 26.734                            | -0.241                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.006                               |         |
| <b>03-01-2000</b> | 481.10                 | 26.493                            | -0.241                                | 100                   | 0.2468             | 100                     | 0.2468               |                            | 0.0000                  | 0.253                               |         |
| 2                 | 480.90                 | 26.252                            | -0.241                                | 100                   | 0.2468             | 100                     | 0.2468               |                            | 0.0000                  | 0.253                               |         |
| 3                 | 480.50                 | 25.771                            | -0.482                                | 100                   | 0.2468             | 100                     | 0.2468               |                            | 0.0000                  | 0.012                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.687</b>                         |                       | <b>1.728</b>       |                         | <b>0.740</b>         |                            | <b>0.000</b>            | <b>0.781</b>                        |         |
| 4                 | 480.30                 | 25.530                            | -0.241                                | 100                   | 0.2468             | 100                     | 0.2468               |                            | 0.0000                  | 0.253                               |         |
| 5                 | 480.00                 | 25.168                            | -0.361                                | 100                   | 0.2468             | 100                     | 0.2468               |                            | 0.0000                  | 0.132                               |         |
| 6                 | 479.70                 | 24.686                            | -0.482                                | 100                   | 0.2468             | 100                     | 0.2468               |                            | 0.0000                  | 0.012                               |         |
| 7                 | 479.50                 | 24.566                            | -0.120                                | 100                   | 0.2468             | 100                     | 0.2468               |                            | 0.0000                  | 0.373                               |         |
| 8                 | 479.20                 | 24.204                            | -0.361                                | 100                   | 0.2468             | 100                     | 0.2468               |                            | 0.0000                  | 0.132                               |         |
| 9                 | 479.00                 | 23.963                            | -0.241                                | 100                   | 0.2468             | 100                     | 0.2468               |                            | 0.0000                  | 0.253                               |         |
| 10                | 478.70                 | 23.647                            | -0.317                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 1.164                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-2.124</b>                         |                       | <b>1.728</b>       |                         | <b>2.715</b>         |                            | <b>0.000</b>            | <b>2.318</b>                        |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 11                | 478.30                 | 23.224                            | -0.422                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 1.058                               |         |
| 12                | 477.80                 | 22.696                            | -0.528                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.953                               |         |
| 13                | 477.20                 | 22.063                            | -0.634                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.847                               |         |
| 14                | 476.50                 | 21.324                            | -0.739                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.742                               |         |
| 15                | 475.90                 | 20.690                            | -0.634                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.847                               |         |
| 16                | 475.10                 | 19.911                            | -0.779                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.701                               |         |
| 17                | 474.20                 | 19.058                            | -0.852                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-4.588</b>                         |                       | <b>1.728</b>       |                         | <b>7.404</b>         |                            | <b>0.000</b>            | <b>5.149</b>                        |         |
| 18                | 474.00                 | 18.869                            | -0.189                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.057                               |         |
| 19                | 473.80                 | 18.680                            | -0.189                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.057                               |         |
| 20                | 473.60                 | 18.490                            | -0.189                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.057                               |         |
| 21                | 473.30                 | 18.206                            | -0.284                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22                | 473.00                 | 17.922                            | -0.284                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23                | 472.70                 | 17.638                            | -0.284                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24                | 472.50                 | 17.448                            | -0.189                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.057                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.610</b>                         |                       | <b>1.728</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.230</b>                        |         |
| 25                | 472.20                 | 17.211                            | -0.238                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.009                               |         |
| 26                | 471.90                 | 16.894                            | -0.317                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27                | 471.60                 | 16.735                            | -0.158                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.088                               |         |
| 28                | 471.40                 | 16.577                            | -0.158                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.088                               |         |
| 29                | 471.20                 | 16.418                            | -0.158                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.088                               |         |
| 30                | 471.00                 | 16.260                            | -0.158                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.088                               |         |
| 31                | 470.90                 | 16.181                            | -0.079                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.168                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.268</b>                         |                       | <b>1.728</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.530</b>                        |         |
| <b>04-01-2000</b> |                        | 0.000                             | -16.181                               |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date              | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 7                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-16.181</b>                        |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 8                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 15                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 22                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 29                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>05-01-2000</b> |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date         | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 3            |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4            |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5            |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 6            |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7            |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8            |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9            |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 13           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 20           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 27           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date              | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 29                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>06-01-2000</b> | 463.10                 | 10.990                            | 10.990                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 10.990                              |         |
| 2                 | 463.10                 | 10.990                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>10.990</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>10.990</b>                       |         |
| 3                 | 463.20                 | 11.048                            | 0.057                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.057                               |         |
| 4                 | 463.20                 | 11.048                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5                 | 463.20                 | 11.048                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6                 | 463.20                 | 11.048                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 | 463.30                 | 11.105                            | 0.057                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.057                               |         |
| 8                 | 463.30                 | 11.105                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9                 | 464.60                 | 11.852                            | 0.747                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.747                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.861</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.861</b>                        |         |
| 10                | 464.70                 | 11.909                            | 0.057                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.057                               |         |
| 11                | 464.70                 | 11.909                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12                | 464.80                 | 11.966                            | 0.057                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.057                               |         |
| 13                | 464.80                 | 11.966                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14                | 465.00                 | 12.081                            | 0.115                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.115                               |         |
| 15                | 465.00                 | 12.081                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16                | 465.00                 | 12.081                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.230</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.230</b>                        |         |
| 17                | 465.10                 | 12.139                            | 0.057                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.057                               |         |
| 18                | 465.10                 | 12.139                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19                | 465.20                 | 12.139                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20                | 467.20                 | 13.479                            | 1.340                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.340                               |         |
| 21                | 467.40                 | 13.547                            | 0.068                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.068                               |         |
| 22                | 467.60                 | 13.750                            | 0.203                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.203                               |         |
| 23                | 467.70                 | 13.818                            | 0.068                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.068                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>1.736</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.736</b>                        |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 24                | 467.70                 | 13.818                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                | 467.80                 | 13.885                            | 0.068                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.068                               |         |
| 26                | 468.00                 | 14.021                            | 0.136                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.136                               |         |
| 27                | 468.00                 | 14.021                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28                | 468.00                 | 14.021                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29                | 468.20                 | 14.156                            | 0.136                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.136                               |         |
| 30                | 468.30                 | 14.224                            | 0.068                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.068                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.407</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.407</b>                        |         |
| <b>07-01-2000</b> | 469.00                 | 14.698                            | 0.474                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.474                               |         |
| 2                 | 469.50                 | 15.072                            | 0.373                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.373                               |         |
| 3                 | 470.10                 | 15.547                            | 0.475                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.475                               |         |
| 4                 | 471.20                 | 16.418                            | 0.871                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.871                               |         |
| 5                 | 471.90                 | 16.894                            | 0.475                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.475                               |         |
| 6                 | 472.80                 | 17.733                            | 0.839                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.839                               |         |
| 7                 | 473.90                 | 18.774                            | 1.042                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.042                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>4.550</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>4.550</b>                        |         |
| 8                 | 474.80                 | 19.627                            | 0.852                                 |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 1.223                               |         |
| 9                 | 476.70                 | 21.535                            | 1.908                                 |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 2.278                               |         |
| 10                | 478.20                 | 23.119                            | 1.584                                 |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 1.954                               |         |
| 11                | 479.30                 | 24.325                            | 1.206                                 |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 1.576                               |         |
| 12                | 480.00                 | 25.168                            | 0.843                                 |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 1.214                               |         |
| 13                | 480.20                 | 25.409                            | 0.241                                 |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.611                               |         |
| 14                | 482.00                 | 27.457                            | 2.048                                 |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 2.418                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>8.683</b>                          |                       | <b>0.000</b>       |                         | <b>2.591</b>         |                            | <b>0.000</b>            | <b>11.274</b>                       |         |
| 15                | 485.90                 | 32.905                            | 5.448                                 |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 5.818                               |         |
| 16                | 489.80                 | 38.891                            | 5.986                                 |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 6.356                               |         |
| 17                | 493.60                 | 45.954                            | 7.063                                 |                       | 0.0000             | 200                     | 0.4936               |                            | 0.0000                  | 7.557                               |         |
| 18                | 494.40                 | 47.534                            | 1.579                                 |                       | 0.0000             | 200                     | 0.4936               |                            | 0.0000                  | 2.073                               |         |
| 19                | 494.80                 | 48.323                            | 0.790                                 |                       | 0.0000             | 200                     | 0.4936               |                            | 0.0000                  | 1.283                               |         |
| 20                | 495.00                 | 48.718                            | 0.395                                 |                       | 0.0000             | 200                     | 0.4936               |                            | 0.0000                  | 0.888                               |         |



| Date              | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 21                | 495.60                 | 49.932                            | 1.214                                 |                       | 0.0000             | 200                     | 0.4936               |                            | 0.0000                  | 1.707                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>22.474</b>                         |                       | <b>0.000</b>       |                         | <b>3.208</b>         |                            | <b>0.000</b>            | <b>25.683</b>                       |         |
| 22                | 500.00                 | 63.997                            | 14.065                                |                       | 0.0000             | 200                     | 0.4936               |                            | 0.0000                  | 14.559                              |         |
| 23                | 500.50                 | 65.961                            | 1.964                                 |                       | 0.0000             |                         | 0.0000               | 694                        | 1.7127                  | 3.676                               |         |
| 24                | 500.40                 | 65.568                            | -0.393                                |                       | 0.0000             |                         | 0.0000               | 498                        | 1.2290                  | 0.836                               |         |
| 25                | 501.00                 | 67.532                            | 1.964                                 |                       | 0.0000             |                         | 0.0000               | 1927                       | 4.7556                  | 6.719                               |         |
| 26                | 500.80                 | 67.139                            | -0.393                                |                       | 0.0000             |                         | 0.0000               | 1388                       | 3.4254                  | 3.033                               |         |
| 27                | 500.50                 | 65.961                            | -1.178                                |                       | 0.0000             |                         | 0.0000               | 694                        | 1.7127                  | 0.535                               |         |
| 28                | 500.40                 | 65.568                            | -0.393                                |                       | 0.0000             |                         | 0.0000               | 498                        | 1.2290                  | 0.836                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>15.636</b>                         |                       | <b>0.000</b>       |                         | <b>0.494</b>         |                            | <b>14.065</b>           | <b>30.194</b>                       |         |
| 29                | 500.30                 | 65.175                            | -0.393                                |                       | 0.0000             |                         | 0.0000               | 305                        | 0.7527                  | 0.360                               |         |
| 30                | 500.10                 | 64.390                            | -0.785                                | 100                   | 0.2468             | 700                     | 1.7275               | 64.3                       | 0.1587                  | 1.348                               |         |
| 31                | 499.80                 | 62.844                            | -1.545                                | 100                   | 0.2468             | 700                     | 1.7275               |                            | 0.0000                  | 0.429                               |         |
| <b>08-01-2000</b> | 499.40                 | 60.539                            | -2.305                                | 100                   | 0.2468             | 700                     | 1.7275               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 498.70                 | 56.504                            | -4.035                                | 100                   | 0.2468             | 1000                    | 2.4679               |                            | 0.0000                  | 0.000                               |         |
| 3                 | 497.80                 | 54.596                            | -1.908                                | 100                   | 0.2468             | 1000                    | 2.4679               |                            | 0.0000                  | 0.807                               |         |
| 4                 | 497.20                 | 53.324                            | -1.272                                | 100                   | 0.2468             | 1000                    | 2.4679               |                            | 0.0000                  | 1.443                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-12.244</b>                        |                       | <b>1.481</b>       |                         | <b>12.586</b>        |                            | <b>0.911</b>            | <b>4.385</b>                        |         |
| 5                 | 496.80                 | 52.476                            | -0.848                                | 150                   | 0.3702             | 1000                    | 2.4679               |                            | 0.0000                  | 1.990                               |         |
| 6                 | 495.90                 | 50.568                            | -1.908                                | 150                   | 0.3702             | 700                     | 1.7275               |                            | 0.0000                  | 0.190                               |         |
| 7                 | 495.30                 | 49.310                            | -1.257                                | 150                   | 0.3702             | 700                     | 1.7275               |                            | 0.0000                  | 0.840                               |         |
| 8                 | 494.60                 | 47.928                            | -1.382                                | 150                   | 0.3702             | 700                     | 1.7275               |                            | 0.0000                  | 0.716                               |         |
| 9                 | 494.50                 | 47.731                            | -0.197                                | 200                   | 0.4936             | 700                     | 1.7275               |                            | 0.0000                  | 2.024                               |         |
| 10                | 494.10                 | 46.941                            | -0.790                                | 200                   | 0.4936             | 700                     | 1.7275               |                            | 0.0000                  | 1.431                               |         |
| 11                | 493.50                 | 45.757                            | -1.184                                | 200                   | 0.4936             | 700                     | 1.7275               |                            | 0.0000                  | 1.037                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-7.567</b>                         |                       | <b>2.961</b>       |                         | <b>12.833</b>        |                            | <b>0.000</b>            | <b>8.227</b>                        |         |
| 12                | 493.10                 | 44.770                            | -0.987                                | 200                   | 0.4936             | 700                     | 1.7275               |                            | 0.0000                  | 1.234                               |         |
| 13                | 492.40                 | 43.585                            | -1.184                                | 200                   | 0.4936             | 700                     | 1.7275               |                            | 0.0000                  | 1.037                               |         |
| 14                | 492.00                 | 42.675                            | -0.911                                | 200                   | 0.4936             | 700                     | 1.7275               |                            | 0.0000                  | 1.310                               |         |
| 15                | 493.20                 | 45.165                            | 2.490                                 | 200                   | 0.4936             | 700                     | 1.7275               |                            | 0.0000                  | 4.711                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 16                | 493.60                 | 45.954                            | 0.790                                 | 200                   | 0.4936             | 700                     | 1.7275               |                            | 0.0000                  | 3.011                               |         |
| 17                | 493.80                 | 46.349                            | 0.395                                 | 150                   | 0.3702             | 700                     | 1.7275               |                            | 0.0000                  | 2.493                               |         |
| 18                | 493.60                 | 45.954                            | -0.395                                | 150                   | 0.3702             | 400                     | 0.9872               |                            | 0.0000                  | 0.963                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.197</b>                          |                       | <b>3.208</b>       |                         | <b>11.352</b>        |                            | <b>0.000</b>            | <b>14.758</b>                       |         |
| 19                | 493.20                 | 45.165                            | -0.790                                | 150                   | 0.3702             | 400                     | 0.9872               |                            | 0.0000                  | 0.568                               |         |
| 20                | 493.00                 | 44.770                            | -0.395                                | 150                   | 0.3702             | 400                     | 0.9872               |                            | 0.0000                  | 0.963                               |         |
| 21                | 492.60                 | 43.980                            | -0.790                                | 150                   | 0.3702             | 400                     | 0.9872               |                            | 0.0000                  | 0.568                               |         |
| 22                | 492.10                 | 43.019                            | -0.962                                | 150                   | 0.3702             | 400                     | 0.9872               |                            | 0.0000                  | 0.396                               |         |
| 23                | 491.60                 | 42.159                            | -0.860                                | 200                   | 0.4936             | 400                     | 0.9872               |                            | 0.0000                  | 0.621                               |         |
| 24                | 491.00                 | 41.127                            | -1.032                                | 170                   | 0.4195             | 400                     | 0.9872               |                            | 0.0000                  | 0.375                               |         |
| 25                | 490.30                 | 39.923                            | -1.204                                | 170                   | 0.4195             | 400                     | 0.9872               |                            | 0.0000                  | 0.203                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-6.031</b>                         |                       | <b>2.813</b>       |                         | <b>6.910</b>         |                            | <b>0.000</b>            | <b>3.692</b>                        |         |
| 26                | 489.70                 | 38.891                            | -1.032                                | 170                   | 0.4195             | 1000                    | 2.4679               |                            | 0.0000                  | 1.856                               |         |
| 27                | 488.70                 | 37.054                            | -1.837                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.125                               |         |
| 28                | 487.80                 | 35.825                            | -1.229                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.732                               |         |
| 29                | 486.80                 | 34.288                            | -1.537                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.425                               |         |
| 30                | 485.90                 | 32.905                            | -1.383                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.578                               |         |
| 31                | 486.20                 | 33.366                            | 0.461                                 | 100                   | 0.2468             | 1200                    | 2.9615               |                            | 0.0000                  | 3.669                               |         |
| <b>09-01-2000</b> | 487.00                 | 34.595                            | 1.229                                 | 100                   | 0.2468             | 1200                    | 2.9615               |                            | 0.0000                  | 4.438                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-5.328</b>                         |                       | <b>2.887</b>       |                         | <b>18.262</b>        |                            | <b>0.000</b>            | <b>15.822</b>                       |         |
| 2                 | 490.50                 | 40.267                            | 5.671                                 | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 7.152                               |         |
| 3                 | 492.50                 | 43.783                            | 3.516                                 | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 4.997                               |         |
| 4                 | 493.10                 | 44.770                            | 0.987                                 | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 2.468                               |         |
| 5                 | 493.10                 | 44.770                            | 0.000                                 | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 1.481                               |         |
| 6                 | 492.80                 | 44.375                            | -0.395                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 1.086                               |         |
| 7                 | 492.30                 | 43.388                            | -0.987                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.494                               |         |
| 8                 | 491.60                 | 42.159                            | -1.229                                | 150                   | 0.3702             | 1000                    | 2.4679               |                            | 0.0000                  | 1.609                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>7.563</b>                          |                       | <b>1.851</b>       |                         | <b>9.872</b>         |                            | <b>0.000</b>            | <b>19.286</b>                       |         |
| 9                 | 491.60                 | 42.159                            | 0.000                                 | 150                   | 0.3702             | 1000                    | 2.4679               |                            | 0.0000                  | 2.838                               |         |
| 10                | 494.10                 | 46.941                            | 4.783                                 | 150                   | 0.3702             | 1000                    | 2.4679               |                            | 0.0000                  | 7.621                               |         |

| Date             | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 11               | 495.00                 | 48.718                            | 1.777                                 | 150                   | 0.3702             | 1000                    | 2.4679               |                            | 0.0000                  | 4.615                               |         |
| 12               | 494.80                 | 48.323                            | -0.395                                | 150                   | 0.3702             | 1000                    | 2.4679               |                            | 0.0000                  | 2.443                               |         |
| 13               | 494.80                 | 48.323                            | 0.000                                 | 150                   | 0.3702             | 350                     | 0.8638               |                            | 0.0000                  | 1.234                               |         |
| 14               | 494.40                 | 47.534                            | -0.790                                | 150                   | 0.3702             | 350                     | 0.8638               |                            | 0.0000                  | 0.444                               |         |
| 15               | 493.90                 | 46.546                            | -0.987                                | 200                   | 0.4936             | 350                     | 0.8638               |                            | 0.0000                  | 0.370                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>4.388</b>                          |                       | <b>2.715</b>       |                         | <b>12.463</b>        |                            | <b>0.000</b>            | <b>19.565</b>                       |         |
| 16               | 493.50                 | 45.757                            | -0.790                                | 200                   | 0.4936             | 350                     | 0.8638               |                            | 0.0000                  | 0.568                               |         |
| 17               | 493.30                 | 45.362                            | -0.395                                | 200                   | 0.4936             | 350                     | 0.8638               |                            | 0.0000                  | 0.963                               |         |
| 18               | 502.18                 | 63.997                            | 18.635                                | 100                   | 0.2468             | 450                     | 1.1106               |                            | 0.0000                  | 19.992                              |         |
| 19               | 502.00                 | 63.997                            | 0.000                                 |                       | 0.0000             | 550                     | 1.3573               | 5450                       | 13.4500                 | 14.807                              |         |
| 20               | 508.40                 | 63.997                            | 0.000                                 |                       | 0.0000             | 550                     | 1.3573               | 33645                      | 83.0324                 | 84.390                              |         |
| 21               | 510.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 550                     | 1.3573               | 60700                      | 149.8013                | 151.159                             |         |
| 22               | 504.00                 | 63.997                            | 0.000                                 |                       | 0.0000             | 550                     | 1.3573               | 15453                      | 38.1364                 | 39.494                              |         |
| <b>TOTAL</b>     |                        |                                   | <b>17.451</b>                         |                       | <b>1.234</b>       |                         | <b>8.267</b>         |                            | <b>284.420</b>          | <b>311.372</b>                      |         |
| 23               | 502.70                 | 63.997                            | 0.000                                 |                       | 0.0000             | 550                     | 1.3573               | 8570                       | 21.1499                 | 22.507                              |         |
| 24               | 502.50                 | 63.997                            | 0.000                                 |                       | 0.0000             | 550                     | 1.3573               | 7491                       | 18.4870                 | 19.844                              |         |
| 25               | 501.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 550                     | 1.3573               | 2544                       | 6.2783                  | 7.636                               |         |
| 26               | 500.80                 | 63.997                            | 0.000                                 |                       | 0.0000             | 550                     | 1.3573               | 1388                       | 3.4254                  | 4.783                               |         |
| 27               | 500.50                 | 63.997                            | 0.000                                 |                       | 0.0000             | 550                     | 1.3573               | 694                        | 1.7127                  | 3.070                               |         |
| 28               | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             | 550                     | 1.3573               | 308                        | 0.7601                  | 2.117                               |         |
| 29               | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 550                     | 1.3573               | 173                        | 0.4269                  | 1.784                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>9.501</b>         |                            | <b>52.240</b>           | <b>61.742</b>                       |         |
| 30               | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             | 550                     | 1.3573               | 64                         | 0.1579                  | 1.515                               |         |
| <b>1.10.2000</b> | 500.00                 | 63.997                            | 0.000                                 |                       | 0.0000             | 550                     | 1.3573               |                            | 0.0000                  | 1.357                               |         |
| 2.10.2000        | 499.80                 | 62.844                            | -1.153                                |                       | 0.0000             | 550                     | 1.3573               |                            | 0.0000                  | 0.205                               |         |
| 3.10.2000        | 500.10                 | 63.997                            | 1.153                                 |                       | 0.0000             | 550                     | 1.3573               | 64.30                      | 0.1587                  | 2.669                               |         |
| 4.10.2000        | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             | 550                     | 1.3573               | 64.30                      | 0.1587                  | 1.516                               |         |
| 5.10.2000        | 499.90                 | 62.844                            | -1.153                                |                       | 0.0000             | 550                     | 1.3573               |                            | 0.0000                  | 0.204                               |         |
| 6.10.2000        | 499.70                 | 62.268                            | -0.576                                |                       | 0.0000             | 550                     | 1.3573               |                            | 0.0000                  | 0.781                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-1.729</b>                         |                       | <b>0.000</b>       |                         | <b>9.501</b>         |                            | <b>0.475</b>            | <b>8.247</b>                        |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 7.10.2000        | 499.60                 | 61.691                            | -0.576                                |                       | 0.0000             | 550                     | 1.3573               |                            | 0.0000                  | 0.781                               |         |
| 8.10.2000        | 499.50                 | 61.115                            | -0.576                                |                       | 0.0000             | 550                     | 1.3573               |                            | 0.0000                  | 0.781                               |         |
| 9.10.2000        | 499.30                 | 59.962                            | -1.153                                |                       | 0.0000             | 550                     | 1.3573               |                            | 0.0000                  | 0.205                               |         |
| 10.10.2000       | 498.90                 | 57.657                            | -2.305                                |                       | 0.0000             | 550                     | 1.3573               |                            | 0.0000                  | 0.000                               |         |
| 11.10.2000       | 498.60                 | 56.292                            | -1.365                                |                       | 0.0000             | 550                     | 1.3573               |                            | 0.0000                  | 0.000                               |         |
| 12.10.2000       | 498.30                 | 55.656                            | -0.636                                |                       | 0.0000             | 550                     | 1.3573               |                            | 0.0000                  | 0.721                               |         |
| 13.10.2000       | 498.00                 | 55.020                            | -0.636                                | 110                   | 0.2715             | 450                     | 1.1106               |                            | 0.0000                  | 0.746                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-7.248</b>                         |                       | <b>0.271</b>       |                         | <b>9.255</b>         |                            | <b>0.000</b>            | <b>3.234</b>                        |         |
| 14.10.2000       | 497.30                 | 53.536                            | -1.484                                | 110                   | 0.2715             | 450                     | 1.1106               |                            | 0.0000                  | 0.000                               |         |
| 15.10.2000       | 496.50                 | 51.628                            | -1.908                                | 125                   | 0.3085             | 1200                    | 2.9615               |                            | 0.0000                  | 1.362                               |         |
| 16.10.2000       | 496.00                 | 50.780                            | -0.848                                | 125                   | 0.3085             | 1200                    | 2.9615               |                            | 0.0000                  | 2.422                               |         |
| 17.10.2000       | 495.10                 | 48.915                            | -1.864                                | 125                   | 0.3085             | 1200                    | 2.9615               |                            | 0.0000                  | 1.406                               |         |
| 18.10.2000       | 494.00                 | 46.744                            | -2.172                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 1.284                               |         |
| 19.10.2000       | 492.80                 | 44.375                            | -2.369                                | 200                   | 0.4936             | 1300                    | 3.2083               |                            | 0.0000                  | 1.333                               |         |
| .20.10.2000      | 491.50                 | 41.987                            | -2.388                                | 225                   | 0.5553             | 1300                    | 3.2083               |                            | 0.0000                  | 1.375                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-13.033</b>                        |                       | <b>2.739</b>       |                         | <b>19.373</b>        |                            | <b>0.000</b>            | <b>9.181</b>                        |         |
| 21.10.2000       | 490.30                 | 39.923                            | -2.064                                | 200                   | 0.4936             | 1300                    | 3.2083               |                            | 0.0000                  | 1.638                               |         |
| 22.10.2000       | 488.70                 | 37.054                            | -2.869                                | 200                   | 0.4936             | 1300                    | 3.2083               |                            | 0.0000                  | 0.833                               |         |
| 23.10.2000       | 487.50                 | 35.210                            | -1.844                                | 200                   | 0.4936             | 1300                    | 3.2083               |                            | 0.0000                  | 1.858                               |         |
| 24.10.2000       | 485.90                 | 32.905                            | -2.305                                | 200                   | 0.4936             | 1300                    | 3.2083               |                            | 0.0000                  | 1.397                               |         |
| 25.10.2000       | 484.00                 | 30.260                            | -2.645                                | 200                   | 0.4936             | 1300                    | 3.2083               |                            | 0.0000                  | 1.057                               |         |
| 26.10.2000       | 482.60                 | 28.349                            | -1.911                                | 200                   | 0.4936             | 1300                    | 3.2083               |                            | 0.0000                  | 1.791                               |         |
| 27.10.2000       | 481.10                 | 26.493                            | -1.855                                | 225                   | 0.5553             | 1300                    | 3.2083               |                            | 0.0000                  | 1.908                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-15.493</b>                        |                       | <b>3.517</b>       |                         | <b>22.458</b>        |                            | <b>0.000</b>            | <b>10.481</b>                       |         |
| 28.10.2000       | 479.00                 | 23.963                            | -2.530                                | 225                   | 0.5553             | 1300                    | 3.2083               |                            | 0.0000                  | 1.234                               |         |
| 29.10.2000       | 476.80                 | 21.641                            | -2.323                                | 225                   | 0.5553             | 1300                    | 3.2083               |                            | 0.0000                  | 1.441                               |         |
| 30.10.2000       | 474.50                 | 19.343                            | -2.298                                | 225                   | 0.5553             | 1300                    | 3.2083               |                            | 0.0000                  | 1.466                               |         |
| 31.10.2000       | 472.50                 | 17.448                            | -1.894                                | 225                   | 0.5553             | 1300                    | 3.2083               |                            | 0.0000                  | 1.869                               |         |
| <b>1.11.2000</b> | 470.00                 | 15.468                            | -1.981                                | 225                   | 0.5553             | 1300                    | 3.2083               |                            | 0.0000                  | 1.783                               |         |
| 2.11.2000        | 467.80                 | 13.885                            | -1.582                                | 225                   | 0.5553             | 1300                    | 3.2083               |                            | 0.0000                  | 2.181                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 3.11.2000    | 465.60                 | 12.426                            | -1.460                                | 225                   | 0.5553             | 1300                    | 3.2083               |                            | 0.0000                  | 2.304                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-14.068</b>                        |                       | <b>3.887</b>       |                         | <b>22.458</b>        |                            | <b>0.000</b>            | <b>12.277</b>                       |         |
| 4.11.2000    | 463.20                 | 11.048                            | -1.378                                | 225                   | 0.5553             | 1300                    | 3.2083               |                            | 0.0000                  | 2.385                               |         |
| 5.11.2000    | 461.50                 | 10.173                            | -0.875                                | 225                   | 0.5553             | 1300                    | 3.2083               |                            | 0.0000                  | 2.888                               |         |
| 6.11.2000    | 460.00                 | 9.449                             | -0.723                                | 225                   | 0.5553             | 1100                    | 2.7147               |                            | 0.0000                  | 2.546                               |         |
| 7.11.2000    | 458.70                 | 8.821                             | -0.628                                | 225                   | 0.5553             | 1100                    | 2.7147               |                            | 0.0000                  | 2.642                               |         |
| 8.11.2000    | 456.90                 | 8.117                             | -0.704                                | 225                   | 0.5553             | 1100                    | 2.7147               |                            | 0.0000                  | 2.566                               |         |
| 9.11.2000    | 455.70                 | 7.652                             | -0.465                                | 225                   | 0.5553             | 900                     | 2.2211               |                            | 0.0000                  | 2.312                               |         |
| 10.11.2000   | 454.90                 | 7.386                             | -0.266                                | 225                   | 0.5553             | 900                     | 2.2211               |                            | 0.0000                  | 2.510                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-5.040</b>                         |                       | <b>3.887</b>       |                         | <b>19.003</b>        |                            | <b>0.000</b>            | <b>17.850</b>                       |         |
| 11.11.2000   | 454.00                 | 7.087                             | -0.299                                | 225                   | 0.5553             | 900                     | 2.2211               |                            | 0.0000                  | 2.477                               |         |
| 12.11.2000   | 453.20                 | 6.820                             | -0.266                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 2.263                               |         |
| 13.11.2000   | 452.50                 | 6.605                             | -0.216                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 2.314                               |         |
| 14.11.2000   | 451.80                 | 6.412                             | -0.193                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 2.337                               |         |
| 15.11.2000   | 451.00                 | 6.192                             | -0.220                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 2.310                               |         |
| 16.11.2000   | 450.10                 | 5.945                             | -0.248                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 2.282                               |         |
| 17.11.2000   | 450.30                 | 6.000                             | 0.055                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.055                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-1.386</b>                         |                       | <b>3.332</b>       |                         | <b>12.093</b>        |                            | <b>0.000</b>            | <b>14.038</b>                       |         |
| 18.11.2000   | 450.60                 | 6.082                             | 0.083                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.083                               |         |
| 19.11.2000   | 450.90                 | 6.165                             | 0.083                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.083                               |         |
| 20.11.2000   | 451.20                 | 6.247                             | 0.083                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.083                               |         |
| 21.11.2000   | 451.50                 | 6.330                             | 0.083                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.083                               |         |
| 22.11.2000   | 451.90                 | 6.412                             | 0.083                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.083                               |         |
| 23.11.2000   | 452.30                 | 6.550                             | 0.138                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.138                               |         |
| 24.11.2000   | 452.50                 | 6.605                             | 0.055                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.055                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.605</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.605</b>                        |         |
| 25.11.2000   | 452.60                 | 6.632                             | 0.028                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.028                               |         |
| 26.11.2000   | 452.60                 | 6.632                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27.11.2000   | 452.70                 | 6.660                             | 0.028                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.028                               |         |
| 28.11.2000   | 452.70                 | 6.660                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 29.11.2000       | 452.70                 | 6.660                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30.11.2000       | 450.80                 | 6.110                             | -0.550                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>1.12.2000</b> | 452.20                 | 6.522                             | 0.413                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.413                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.083</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.468</b>                        |         |
| 2.12.2000        | 453.10                 | 6.787                             | 0.265                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.265                               |         |
| 3.12.2000        | 453.10                 | 6.787                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4.12.2000        | 453.20                 | 6.820                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 5.12.2000        | 453.20                 | 6.820                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6.12.2000        | 453.30                 | 6.854                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 7.12.2000        | 453.30                 | 6.854                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8.12.2000        | 453.50                 | 6.920                             | 0.067                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.067                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.398</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.398</b>                        |         |
| 9.12.2000        | 453.50                 | 6.920                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10.12.2000       | 453.60                 | 6.954                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 11.12.2000       | 453.60                 | 6.954                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12.12.2000       | 453.80                 | 7.020                             | 0.067                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.067                               |         |
| 13.12.2000       | 453.90                 | 7.053                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 14.12.2000       | 454.00                 | 7.087                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 15.12.2000       | 454.20                 | 7.153                             | 0.067                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.067                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.233</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.233</b>                        |         |
| 16.12.2000       | 454.40                 | 7.220                             | 0.067                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.067                               |         |
| 17.12.2000       | 454.60                 | 7.286                             | 0.067                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.313                               |         |
| 18.12.2000       | 454.80                 | 7.353                             | 0.067                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.313                               |         |
| 19.12.2000       | 459.80                 | 9.304                             | 1.951                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 2.198                               |         |
| 20.12.2000       | 459.70                 | 9.304                             | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 21.12.2000       | 456.70                 | 8.034                             | -1.270                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22.12.2000       | 454.60                 | 7.286                             | -0.748                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.133</b>                          |                       | <b>1.481</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>3.138</b>                        |         |
| 23.12.2000       | 454.60                 | 7.286                             | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 24.12.2000       | 454.50                 | 7.253                             | -0.033                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.214                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 25.12.2000   | 454.50                 | 7.253                             | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 26.12.2000   | 454.50                 | 7.253                             | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 27.12.2000   | 454.40                 | 7.220                             | -0.033                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.214                               |         |
| 28.12.2000   | 454.30                 | 7.186                             | -0.033                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.214                               |         |
| 29.12.2000   | 454.20                 | 7.153                             | -0.033                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.214                               |         |
| 30.12.2000   | 454.10                 | 7.087                             | -0.067                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.180                               |         |
| 31.12.2000   | 454.00                 | 7.087                             | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-0.200</b>                         |                       | <b>2.221</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>2.021</b>                        |         |
| 1.1.2001     | 453.80                 | 7.020                             | -0.067                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.180                               |         |
| 2.1.2001     | 453.70                 | 6.987                             | -0.033                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.214                               |         |
| 3.1.2001     | 453.60                 | 6.954                             | -0.033                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.214                               |         |
| 4.1.2001     | 453.50                 | 6.920                             | -0.033                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 1.571                               |         |
| 5.1.2001     | 452.30                 | 6.550                             | -0.370                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 1.234                               |         |
| 6.1.2001     | 451.00                 | 6.192                             | -0.358                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.753                               |         |
| 7.1.2001     | 449.80                 | 5.862                             | -0.330                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.781                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-1.224</b>                         |                       | <b>2.221</b>       |                         | <b>3.949</b>         |                            | <b>0.000</b>            | <b>4.945</b>                        |         |
| 8.1.2001     | 448.20                 | 5.458                             | -0.404                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.706                               |         |
| 9.1.2001     | 446.70                 | 5.087                             | -0.371                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.739                               |         |
| 10.1.2001    | 444.50                 | 4.549                             | -0.538                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.573                               |         |
| 11.1.2001    | 442.00                 | 3.937                             | -0.612                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.499                               |         |
| 12.1.2001    | 439.60                 | 3.322                             | -0.615                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.495                               |         |
| 13.1.2001    | 437.20                 | 2.780                             | -0.542                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.568                               |         |
| 14.1.2001    | 434.90                 | 2.244                             | -0.536                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.574                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-3.619</b>                         |                       | <b>2.591</b>       |                         | <b>5.183</b>         |                            | <b>0.000</b>            | <b>4.155</b>                        |         |
| 15.1.2001    | 433.80                 | 1.989                             | -0.255                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.856                               |         |
| 16.1.2001    | 432.10                 | 1.599                             | -0.390                                | 180                   | 0.4442             | 500                     | 1.2339               |                            | 0.0000                  | 1.288                               |         |
| 17.1.2001    | 430.90                 | 1.325                             | -0.273                                | 180                   | 0.4442             | 500                     | 1.2339               |                            | 0.0000                  | 1.405                               |         |
| 18.1.2001    | 428.80                 | 0.851                             | -0.475                                | 180                   | 0.4442             | 500                     | 1.2339               |                            | 0.0000                  | 1.204                               |         |
| 19.1.2001    | 425.60                 | 0.103                             | -0.747                                | 180                   | 0.4442             | 500                     | 1.2339               |                            | 0.0000                  | 0.931                               |         |
| 20.1.2001    | 425.00                 | 0.000                             | -0.103                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.390                               |         |

| Date              | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 21.1.2001         |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-2.244</b>                         |                       | <b>2.641</b>       |                         | <b>5.676</b>         |                            | <b>0.000</b>            | <b>6.073</b>                        |         |
| 22.1.2001         |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23.1.2001         |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24.1.2001         |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25.1.2001         |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26.1.2001         |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27.1.2001         |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28.1.2001         |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 29.1.2001         |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30.1.2001         |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31.1.2001         |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>02-01-2001</b> |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 5                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 12                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |



| Date              | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 16                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 19                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 26                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>03-01-2001</b> |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 5                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 12                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date              | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 14                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 19                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 26                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>04-01-2001</b> |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 2                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |

| Date              | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 9                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 16                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 23                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 30                |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>05-01-2001</b> |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5                 |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date         | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 6            |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 7            |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8            |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9            |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 14           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 21           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 28           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date         | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 06-01-2001   |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2            |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3            |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 4            |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5            |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6            |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7            |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8            |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9            |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 11           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 18           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 25           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26           |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date            | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                 |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 27              |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28              |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29              |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30              |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>1.7.2001</b> | 496.30                 | 51.416                            | 51.416                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 51.416                              |         |
| <b>TOTAL</b>    |                        |                                   | <b>51.416</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>51.416</b>                       |         |
| 2.7.2001        | 497.10                 | 53.112                            | 1.696                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.696                               |         |
| 3.7.2001        | 497.50                 | 53.960                            | 0.848                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.848                               |         |
| 4.7.2001        | 497.90                 | 54.808                            | 0.848                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.848                               |         |
| 5.7.2001        | 498.20                 | 55.444                            | 0.636                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.636                               |         |
| 6.7.2001        | 499.00                 | 58.233                            | 2.789                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.789                               |         |
| 7.7.2001        | 499.20                 | 59.386                            | 1.153                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.153                               |         |
| 8.7.2001        | 499.50                 | 61.115                            | 1.729                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.729                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>9.699</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>9.699</b>                        |         |
| 9.7.2001        | 499.70                 | 62.268                            | 1.153                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.153                               |         |
| 10.7.2001       | 499.90                 | 62.844                            | 0.576                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.576                               |         |
| 11.7.2001       | 500.10                 | 63.997                            | 1.153                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 1.312                               |         |
| 12.7.2001       | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 13.7.2001       | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 14.7.2001       | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 15.7.2001       | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               | 64.3                       | 0.1587                  | 0.652                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>2.882</b>                          |                       | <b>0.000</b>       |                         | <b>0.494</b>         |                            | <b>0.793</b>            | <b>4.169</b>                        |         |
| 16.7.2001       | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               | 64.3                       | 0.1587                  | 0.652                               |         |
| 17.7.2001       | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               | 64.3                       | 0.1587                  | 0.652                               |         |
| 18.7.2001       | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               | 173                        | 0.4269                  | 0.921                               |         |
| 19.7.2001       | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               | 173                        | 0.4269                  | 0.921                               |         |
| 20.7.2001       | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               | 173                        | 0.4269                  | 0.921                               |         |
| 21.7.2001       | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             | 200                     | 0.4936               | 173                        | 0.4269                  | 0.921                               |         |
| 22.7.2001       | 500.20                 | 63.997                            | 0.000                                 | 50                    | 0.1234             | 300                     | 0.7404               | 173                        | 0.4269                  | 1.291                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>0.000</b>                          |                       | <b>0.123</b>       |                         | <b>3.702</b>         |                            | <b>2.452</b>            | <b>6.277</b>                        |         |

| Date            | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                 |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 23.7.2001       | 500.20                 | 63.997                            | 0.000                                 | 50                    | 0.1234             | 300                     | 0.7404               | 173                        | 0.4269                  | 1.291                               |         |
| 24.7.2001       | 500.10                 | 63.997                            | 0.000                                 | 100                   | 0.2468             | 536                     | 1.3228               | 64.3                       | 0.1587                  | 1.728                               |         |
| 25.7.2001       | 499.80                 | 62.844                            | -1.153                                | 150                   | 0.3702             | 600                     | 1.4807               |                            | 0.0000                  | 0.698                               |         |
| 26.7.2001       | 499.50                 | 61.115                            | -1.729                                | 150                   | 0.3702             | 700                     | 1.7275               |                            | 0.0000                  | 0.369                               |         |
| 27.7.2001       | 498.70                 | 56.504                            | -4.611                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 0.000                               |         |
| 28.7.2001       | 499.00                 | 58.233                            | 1.729                                 | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 4.691                               |         |
| 29.7.2001       | 498.50                 | 56.080                            | -2.153                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 0.808                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-7.917</b>                         |                       | <b>2.591</b>       |                         | <b>12.675</b>        |                            | <b>0.586</b>            | <b>9.585</b>                        |         |
| 30.7.2001       | 498.70                 | 56.504                            | 0.424                                 |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 2.892                               |         |
| 31.7.2001       | 498.60                 | 56.292                            | -0.212                                |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 2.256                               |         |
| <b>1.8.2001</b> | 498.50                 | 56.080                            | -0.212                                |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 2.256                               |         |
| 2.8.2001        | 498.30                 | 55.656                            | -0.424                                |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 2.044                               |         |
| 3.8.2001        | 498.00                 | 55.020                            | -0.636                                | 50                    | 0.1234             | 1000                    | 2.4679               |                            | 0.0000                  | 1.955                               |         |
| 4.8.2001        | 497.70                 | 54.384                            | -0.636                                | 50                    | 0.1234             | 1000                    | 2.4679               |                            | 0.0000                  | 1.955                               |         |
| 5.8.2001        | 497.20                 | 53.324                            | -1.060                                |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 1.408                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-2.756</b>                         |                       | <b>0.247</b>       |                         | <b>17.275</b>        |                            | <b>0.000</b>            | <b>14.766</b>                       |         |
| 6.8.2001        | 496.40                 | 51.628                            | -1.696                                |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 0.772                               |         |
| 7.8.2001        | 495.50                 | 49.720                            | -1.908                                |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 0.560                               |         |
| 8.8.2001        | 494.80                 | 48.323                            | -1.396                                |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 1.071                               |         |
| 9.8.2001        | 494.00                 | 46.744                            | -1.579                                |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 0.889                               |         |
| 10.8.2001       | 493.20                 | 45.165                            | -1.579                                | 100                   | 0.2468             | 1000                    | 2.4679               |                            | 0.0000                  | 1.135                               |         |
| 11.8.2001       | 492.30                 | 43.388                            | -1.777                                | 150                   | 0.3702             | 1000                    | 2.4679               |                            | 0.0000                  | 1.061                               |         |
| 12.8.2001       | 491.60                 | 42.159                            | -1.229                                | 150                   | 0.3702             | 1000                    | 2.4679               |                            | 0.0000                  | 1.609                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-11.165</b>                        |                       | <b>0.987</b>       |                         | <b>17.275</b>        |                            | <b>0.000</b>            | <b>7.097</b>                        |         |
| 13.8.2001       | 490.70                 | 40.611                            | -1.548                                | 150                   | 0.3702             | 1000                    | 2.4679               |                            | 0.0000                  | 1.290                               |         |
| 14.8.2001       | 489.50                 | 38.547                            | -2.064                                | 175                   | 0.4319             | 1200                    | 2.9615               |                            | 0.0000                  | 1.330                               |         |
| 15.8.2001       | 488.70                 | 37.054                            | -1.493                                | 175                   | 0.4319             | 1200                    | 2.9615               |                            | 0.0000                  | 1.900                               |         |
| 16.8.2001       | 487.90                 | 35.978                            | -1.076                                | 200                   | 0.4936             | 1300                    | 3.2083               |                            | 0.0000                  | 2.626                               |         |
| 17.8.2001       | 486.30                 | 33.520                            | -2.459                                | 200                   | 0.4936             | 1300                    | 3.2083               |                            | 0.0000                  | 1.243                               |         |
| 18.8.2001       | 484.90                 | 31.488                            | -2.031                                | 200                   | 0.4936             | 1300                    | 3.2083               |                            | 0.0000                  | 1.671                               |         |

| Date            | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                 |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 19.8.2001       | 483.60                 | 29.714                            | -1.775                                | 200                   | 0.4936             | 1300                    | 3.2083               |                            | 0.0000                  | 1.927                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-12.445</b>                        |                       | <b>3.208</b>       |                         | <b>21.224</b>        |                            | <b>0.000</b>            | <b>11.987</b>                       |         |
| 20.8.2001       | 482.00                 | 27.457                            | -2.256                                | 200                   | 0.4936             | 1300                    | 3.2083               |                            | 0.0000                  | 1.445                               |         |
| 21.8.2001       | 479.80                 | 24.927                            | -2.530                                | 200                   | 0.4936             | 1300                    | 3.2083               |                            | 0.0000                  | 1.172                               |         |
| 22.8.2001       | 478.70                 | 23.647                            | -1.281                                | 200                   | 0.4936             | 1300                    | 3.2083               |                            | 0.0000                  | 2.421                               |         |
| 23.8.2001       | 477.30                 | 22.168                            | -1.478                                | 200                   | 0.4936             | 1300                    | 3.2083               |                            | 0.0000                  | 2.224                               |         |
| 24.8.2001       | 476.10                 | 20.901                            | -1.267                                | 200                   | 0.4936             | 1300                    | 3.2083               |                            | 0.0000                  | 2.435                               |         |
| 25.8.2001       | 476.50                 | 21.324                            | 0.422                                 | 225                   | 0.5553             | 1300                    | 3.2083               |                            | 0.0000                  | 4.186                               |         |
| 26.8.2001       | 476.60                 | 21.429                            | 0.106                                 | 225                   | 0.5553             | 1300                    | 3.2083               |                            | 0.0000                  | 3.869                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-8.284</b>                         |                       | <b>3.578</b>       |                         | <b>22.458</b>        |                            | <b>0.000</b>            | <b>17.752</b>                       |         |
| 27.8.2001       | 475.60                 | 20.384                            | -1.045                                | 225                   | 0.5553             | 1300                    | 3.2083               |                            | 0.0000                  | 2.719                               |         |
| 28.8.2001       | 474.50                 | 19.343                            | -1.042                                | 225                   | 0.5553             | 1300                    | 3.2083               |                            | 0.0000                  | 2.722                               |         |
| 29.8.2001       | 474.40                 | 19.248                            | -0.095                                | 225                   | 0.5553             | 1300                    | 3.2083               |                            | 0.0000                  | 3.669                               |         |
| 30.8.2001       | 474.30                 | 19.153                            | -0.095                                | 225                   | 0.5553             | 1300                    | 3.2083               |                            | 0.0000                  | 3.669                               |         |
| 31.8.2001       | 474.30                 | 19.153                            | 0.000                                 | 225                   | 0.5553             | 1300                    | 3.2083               |                            | 0.0000                  | 3.764                               |         |
| <b>1.9.2001</b> | 473.90                 | 18.774                            | -0.379                                | 225                   | 0.5553             | 1300                    | 3.2083               |                            | 0.0000                  | 3.385                               |         |
| 2.9.2001        | 473.00                 | 17.922                            | -0.852                                | 225                   | 0.5553             | 1150                    | 2.8381               |                            | 0.0000                  | 2.541                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-3.507</b>                         |                       | <b>3.887</b>       |                         | <b>22.088</b>        |                            | <b>0.000</b>            | <b>22.467</b>                       |         |
| 3.9.2001        | 472.10                 | 17.132                            | -0.790                                | 225                   | 0.5553             | 1150                    | 2.8381               |                            | 0.0000                  | 2.603                               |         |
| 4.9.2001        | 470.90                 | 16.181                            | -0.951                                | 225                   | 0.5553             | 1150                    | 2.8381               |                            | 0.0000                  | 2.443                               |         |
| 5.9.2001        | 470.20                 | 15.626                            | -0.555                                | 225                   | 0.5553             | 1150                    | 2.8381               |                            | 0.0000                  | 2.839                               |         |
| 6.9.2001        | 475.60                 | 20.384                            | 4.758                                 | 225                   | 0.5553             | 1150                    | 2.8381               |                            | 0.0000                  | 8.151                               |         |
| 7.9.2001        | 488.70                 | 37.054                            | 16.670                                | 225                   | 0.5553             | 700                     | 1.7275               |                            | 0.0000                  | 18.953                              |         |
| 8.9.2001        | 488.00                 | 36.132                            | -0.922                                | 225                   | 0.5553             | 700                     | 1.7275               |                            | 0.0000                  | 1.361                               |         |
| 9.9.2001        | 489.50                 | 38.547                            | 2.415                                 | 225                   | 0.5553             | 700                     | 1.7275               |                            | 0.0000                  | 4.698                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>20.625</b>                         |                       | <b>3.887</b>       |                         | <b>16.535</b>        |                            | <b>0.000</b>            | <b>41.047</b>                       |         |
| 10.9.2001       | 490.80                 | 40.783                            | 2.236                                 | 225                   | 0.5553             | 700                     | 1.7275               |                            | 0.0000                  | 4.519                               |         |
| 11.9.2001       | 491.80                 | 42.503                            | 1.720                                 | 225                   | 0.5553             | 700                     | 1.7275               |                            | 0.0000                  | 4.003                               |         |
| 12.9.2001       | 492.20                 | 43.190                            | 0.688                                 | 200                   | 0.4936             | 700                     | 1.7275               |                            | 0.0000                  | 2.909                               |         |
| 13.9.2001       | 492.30                 | 43.388                            | 0.197                                 | 150                   | 0.3702             | 700                     | 1.7275               |                            | 0.0000                  | 2.295                               |         |



| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 14.9.2001        | 494.00                 | 46.744                            | 3.356                                 | 150                   | 0.3702             | 700                     | 1.7275               |                            | 0.0000                  | 5.454                               |         |
| 15.9.2001        | 494.40                 | 47.534                            | 0.790                                 | 150                   | 0.3702             | 700                     | 1.7275               |                            | 0.0000                  | 2.887                               |         |
| 16.9.2001        | 494.60                 | 47.928                            | 0.395                                 | 150                   | 0.3702             | 700                     | 1.7275               |                            | 0.0000                  | 2.493                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>9.381</b>                          |                       | <b>3.085</b>       |                         | <b>12.093</b>        |                            | <b>0.000</b>            | <b>24.559</b>                       |         |
| 17.9.2001        | 498.70                 | 56.504                            | 8.576                                 | 150                   | 0.3702             | 700                     | 1.7275               |                            | 0.0000                  | 10.673                              |         |
| 18.9.2001        | 500.90                 | 63.997                            | 7.493                                 | 150                   | 0.3702             | 700                     | 1.7275               | 1646                       | 4.0622                  | 13.653                              |         |
| 19.9.2001        | 500.40                 | 63.997                            | 0.000                                 | 180                   | 0.4442             | 700                     | 1.7275               | 498                        | 1.2290                  | 3.401                               |         |
| 20.9.2001        | 500.20                 | 63.997                            | 0.000                                 | 180                   | 0.4442             | 700                     | 1.7275               | 173                        | 0.4269                  | 2.599                               |         |
| 21.9.2001        | 499.80                 | 62.844                            | -1.153                                | 200                   | 0.4936             | 700                     | 1.7275               |                            | 0.0000                  | 1.068                               |         |
| 22.9.2001        | 499.70                 | 62.268                            | -0.576                                | 200                   | 0.4936             | 700                     | 1.7275               |                            | 0.0000                  | 1.645                               |         |
| 23.9.2001        | 499.50                 | 61.115                            | -1.153                                | 200                   | 0.4936             | 700                     | 1.7275               |                            | 0.0000                  | 1.068                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>13.187</b>                         |                       | <b>3.110</b>       |                         | <b>12.093</b>        |                            | <b>5.718</b>            | <b>34.107</b>                       |         |
| 24.9.2001        | 499.20                 | 59.386                            | -1.729                                | 200                   | 0.4936             | 700                     | 1.7275               |                            | 0.0000                  | 0.492                               |         |
| 25.9.2001        | 498.70                 | 56.504                            | -2.882                                | 225                   | 0.5553             | 700                     | 1.7275               |                            | 0.0000                  | 0.000                               |         |
| 26.9.2001        | 498.10                 | 55.232                            | -1.272                                | 225                   | 0.5553             | 700                     | 1.7275               |                            | 0.0000                  | 1.011                               |         |
| 27.9.2001        | 497.60                 | 53.960                            | -1.272                                | 225                   | 0.5553             | 700                     | 1.7275               |                            | 0.0000                  | 1.011                               |         |
| 28.9.2001        | 496.90                 | 52.688                            | -1.272                                | 225                   | 0.5553             | 1000                    | 2.4679               |                            | 0.0000                  | 1.751                               |         |
| 29.9.2001        | 495.90                 | 50.568                            | -2.120                                | 225                   | 0.5553             | 1000                    | 2.4679               |                            | 0.0000                  | 0.903                               |         |
| 30.9.2001        | 494.80                 | 48.323                            | -2.245                                | 225                   | 0.5553             | 1000                    | 2.4679               |                            | 0.0000                  | 0.779                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-12.792</b>                        |                       | <b>3.825</b>       |                         | <b>14.314</b>        |                            | <b>0.000</b>            | <b>5.946</b>                        |         |
| <b>1.10.2001</b> | 493.90                 | 46.546                            | -1.777                                | 225                   | 0.5553             | 1000                    | 2.4679               |                            | 0.0000                  | 1.246                               |         |
| 2.10.2001        | 493.00                 | 44.770                            | -1.777                                | 225                   | 0.5553             | 1000                    | 2.4679               |                            | 0.0000                  | 1.246                               |         |
| 3.10.2001        | 492.80                 | 44.375                            | -0.395                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 2.567                               |         |
| 4.10.2001        | 492.80                 | 44.375                            | 0.000                                 | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 2.961                               |         |
| 4.10.2001        | 498.60                 | 56.292                            | 11.917                                |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 14.385                              |         |
| 5.10.2001        | 506.60                 | 63.997                            | 7.705                                 |                       | 0.0000             | 1000                    | 2.4679               | 28306                      | 69.8563                 | 80.029                              |         |
| 6.10.2001        | 505.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 22818                      | 56.3124                 | 56.312                              |         |
| 7.10.2001        | 501.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 3200                       | 7.8973                  | 7.897                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>15.674</b>                         |                       | <b>2.098</b>       |                         | <b>14.807</b>        |                            | <b>134.066</b>          | <b>166.645</b>                      |         |
| 8.10.2001        | 500.90                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1646                       | 4.0622                  | 4.062                               |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 9.10.2001        | 500.80                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1388                       | 3.4254                  | 3.425                               |         |
| 10.10.2001       | 500.70                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1137                       | 2.8060                  | 2.806                               |         |
| 11.10.2001       | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498                        | 1.2290                  | 1.229                               |         |
| 12.10.2001       | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 308                        | 0.7601                  | 0.760                               |         |
| 13.10.2001       | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 14.10.2001       | 500.10                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.529                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.000</b>                          |                       | <b>0.370</b>       |                         | <b>0.000</b>         |                            | <b>12.868</b>           | <b>13.239</b>                       |         |
| 15.10.2001       | 500.10                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.529                               |         |
| 16.10.2001       | 500.10                 | 63.997                            | 0.000                                 | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 1.604                               |         |
| 17.10.2001       | 499.90                 | 62.844                            | -1.153                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.451                               |         |
| 18.10.2001       | 499.70                 | 62.268                            | -0.576                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 1.151                               |         |
| 19.10.2001       | 499.40                 | 60.539                            | -1.729                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 0.000                               |         |
| 20.10.2001       | 494.40                 | 47.534                            | -13.005                               | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 0.000                               |         |
| 21.10.2001       | 499.10                 | 58.810                            | 11.276                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 13.004                              |         |
| <b>TOTAL</b>     |                        |                                   | <b>-5.187</b>                         |                       | <b>3.085</b>       |                         | <b>7.404</b>         |                            | <b>0.159</b>            | <b>16.739</b>                       |         |
| 22.10.2001       | 498.70                 | 56.504                            | -2.305                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 0.000                               |         |
| 23.10.2001       | 498.30                 | 55.656                            | -0.848                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 2.113                               |         |
| 24.10.2001       | 498.00                 | 55.020                            | -0.636                                | 225                   | 0.5553             | 1000                    | 2.4679               |                            | 0.0000                  | 2.387                               |         |
| 25.10.2001.      | 497.70                 | 54.384                            | -0.636                                | 225                   | 0.5553             | 1000                    | 2.4679               |                            | 0.0000                  | 2.387                               |         |
| 26.10.2001       | 497.00                 | 52.900                            | -1.484                                | 225                   | 0.5553             | 1000                    | 2.4679               |                            | 0.0000                  | 1.539                               |         |
| 27.10.2001       | 496.50                 | 51.628                            | -1.272                                | 225                   | 0.5553             | 1000                    | 2.4679               |                            | 0.0000                  | 1.751                               |         |
| 28.10.2001       | 496.00                 | 50.780                            | -0.848                                | 225                   | 0.5553             | 1000                    | 2.4679               |                            | 0.0000                  | 2.175                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-8.030</b>                         |                       | <b>3.764</b>       |                         | <b>16.041</b>        |                            | <b>0.000</b>            | <b>12.353</b>                       |         |
| 29.10.2001       | 495.40                 | 49.310                            | -1.469                                | 225                   | 0.5553             | 1000                    | 2.4679               |                            | 0.0000                  | 1.554                               |         |
| 30.10.2001       | 494.60                 | 47.928                            | -1.382                                | 225                   | 0.5553             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31.10.2001       | 493.20                 | 45.165                            | -2.764                                | 225                   | 0.5553             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>1.11.2001</b> | 493.00                 | 44.770                            | -0.395                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.099                               |         |
| 2.11.2001        | 492.90                 | 44.572                            | -0.197                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.296                               |         |
| 3.11.2001        | 492.80                 | 44.375                            | -0.197                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.296                               |         |
| 4.11.2001        | 492.70                 | 44.178                            | -0.197                                | 225                   | 0.5553             | 500                     | 1.2339               |                            | 0.0000                  | 1.592                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b> |                        |                                   | <b>-6.602</b>                         |                       | <b>3.702</b>       |                         | <b>3.702</b>         |                            | <b>0.000</b>            | <b>3.837</b>                        |         |
| 5.11.2001    | 492.00                 | 42.675                            | -1.503                                | 225                   | 0.5553             | 500                     | 1.2339               |                            | 0.0000                  | 0.286                               |         |
| 6.11.2001    | 491.50                 | 41.987                            | -0.688                                | 225                   | 0.5553             | 500                     | 1.2339               |                            | 0.0000                  | 1.101                               |         |
| 7.11.2001    | 491.00                 | 41.127                            | -0.860                                | 225                   | 0.5553             | 500                     | 1.2339               |                            | 0.0000                  | 0.929                               |         |
| 8.11.2001    | 491.00                 | 41.127                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9.11.2001    | 491.00                 | 41.127                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10.11.2001   | 491.00                 | 41.127                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11.11.2001   | 491.00                 | 41.127                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-3.051</b>                         |                       | <b>1.666</b>       |                         | <b>3.702</b>         |                            | <b>0.000</b>            | <b>2.317</b>                        |         |
| 12.11.2001   | 491.10                 | 41.299                            | 0.172                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.172                               |         |
| 13.11.2001   | 491.10                 | 41.299                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14.11.2001   | 491.10                 | 41.299                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15.11.2001   | 491.20                 | 41.471                            | 0.172                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.172                               |         |
| 16.11.2001   | 491.20                 | 41.471                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17.11.2001   | 491.20                 | 41.471                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18.11.2001   | 491.30                 | 41.643                            | 0.172                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.172                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.516</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.516</b>                        |         |
| 19.11.2001   | 491.30                 | 41.643                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20.11.2001   | 491.40                 | 41.815                            | 0.172                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.172                               |         |
| 21.11.2001   | 491.50                 | 41.987                            | 0.172                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.172                               |         |
| 22.11.2001   | 491.50                 | 41.987                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23.11.2001   | 491.50                 | 41.987                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24.11.2001   | 491.60                 | 42.159                            | 0.172                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.172                               |         |
| 25.11.2001   | 491.60                 | 42.159                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.516</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.516</b>                        |         |
| 26.11.2001   | 491.70                 | 42.331                            | 0.172                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.172                               |         |
| 27.11.2001   | 491.70                 | 42.331                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28.11.2001   | 491.80                 | 42.503                            | 0.172                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.172                               |         |
| 29.11.2001   | 491.80                 | 42.503                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30.11.2001   | 492.00                 | 42.675                            | 0.172                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.172                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 1.12.2001    | 492.00                 | 42.675                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2.12.2001    | 492.10                 | 43.019                            | 0.344                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.591                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.860</b>                          |                       | <b>0.247</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.107</b>                        |         |
| 3.12.2001    | 492.10                 | 43.019                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 4.12.2001    | 492.10                 | 43.019                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 5.12.2001    | 492.00                 | 42.675                            | -0.344                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6.12.2001    | 492.00                 | 42.675                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 7.12.2001    | 491.90                 | 42.675                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 8.12.2001    | 491.90                 | 42.675                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 9.12.2001    | 491.80                 | 42.503                            | -0.172                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.198                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-0.516</b>                         |                       | <b>1.851</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.432</b>                        |         |
| 10.12.2001   | 491.80                 | 42.503                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.370                               |         |
| 11.12.2001   | 491.70                 | 42.331                            | -0.172                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.198                               |         |
| 12.12.2001   | 491.60                 | 42.159                            | -0.172                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.198                               |         |
| 13.12.2001   | 491.50                 | 41.987                            | -0.172                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.322                               |         |
| 14.12.2001   | 491.40                 | 41.815                            | -0.172                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.322                               |         |
| 15.12.2001   | 491.20                 | 41.471                            | -0.344                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.026                               |         |
| 16.12.2001   | 491.10                 | 41.299                            | -0.172                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.198                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-1.204</b>                         |                       | <b>2.838</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.634</b>                        |         |
| 17.12.2001   | 490.90                 | 40.783                            | -0.516                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18.12.2001   | 490.70                 | 40.611                            | -0.172                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.198                               |         |
| 19.12.2001   | 490.40                 | 40.095                            | -0.516                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20.12.2001   | 490.00                 | 39.407                            | -0.688                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21.12.2001   | 489.70                 | 38.891                            | -0.516                                | 50                    | 0.1234             | 300                     | 0.7404               |                            | 0.0000                  | 0.348                               |         |
| 22.12.2001   | 489.20                 | 38.031                            | -0.860                                | 50                    | 0.1234             | 300                     | 0.7404               |                            | 0.0000                  | 0.004                               |         |
| 23.12.2001   | 488.80                 | 37.361                            | -0.670                                | 50                    | 0.1234             | 300                     | 0.7404               |                            | 0.0000                  | 0.194                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-3.937</b>                         |                       | <b>1.851</b>       |                         | <b>2.221</b>         |                            | <b>0.000</b>            | <b>0.744</b>                        |         |
| 24.12.2001   | 488.50                 | 36.900                            | -0.461                                | 50                    | 0.1234             | 300                     | 0.7404               |                            | 0.0000                  | 0.403                               |         |
| 25.12.2001   | 488.20                 | 36.439                            | -0.461                                | 50                    | 0.1234             | 300                     | 0.7404               |                            | 0.0000                  | 0.403                               |         |
| 26.12.2001   | 488.00                 | 36.132                            | -0.307                                | 50                    | 0.1234             | 300                     | 0.7404               |                            | 0.0000                  | 0.556                               |         |

| Date            | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                 |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 27.12.2001      | 487.70                 | 35.671                            | -0.461                                | 50                    | 0.1234             | 300                     | 0.7404               |                            | 0.0000                  | 0.403                               |         |
| 28.12.2001      | 487.30                 | 35.056                            | -0.615                                | 50                    | 0.1234             | 300                     | 0.7404               |                            | 0.0000                  | 0.249                               |         |
| 29.12.2001      | 486.90                 | 34.442                            | -0.615                                | 50                    | 0.1234             | 300                     | 0.7404               |                            | 0.0000                  | 0.249                               |         |
| 30.12.2001      | 486.50                 | 33.827                            | -0.615                                | 50                    | 0.1234             | 300                     | 0.7404               |                            | 0.0000                  | 0.249                               |         |
| 31.12.2001      | 486.00                 | 33.059                            | -0.768                                | 50                    | 0.1234             | 300                     | 0.7404               |                            | 0.0000                  | 0.095                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-4.303</b>                         |                       | <b>0.987</b>       |                         | <b>5.923</b>         |                            | <b>0.000</b>            | <b>2.607</b>                        |         |
| <b>1.1.2002</b> | <b>485.50</b>          | <b>32.307</b>                     | <b>-0.751</b>                         | <b>50</b>             | <b>0.1234</b>      | <b>300</b>              | <b>0.7404</b>        |                            | <b>0.0000</b>           | <b>0.113</b>                        |         |
| 2.1.2002        | 485.10                 | 31.761                            | -0.546                                | 50                    | 0.1234             | 300                     | 0.7404               |                            | 0.0000                  | 0.318                               |         |
| 3.1.2002        | 484.70                 | 31.215                            | -0.546                                | 50                    | 0.1234             | 300                     | 0.7404               |                            | 0.0000                  | 0.318                               |         |
| 4.1.2002        | 484.40                 | 30.806                            | -0.410                                | 50                    | 0.1234             | 300                     | 0.7404               |                            | 0.0000                  | 0.454                               |         |
| 5.1.2002        | 484.20                 | 30.396                            | -0.410                                | 50                    | 0.1234             | 300                     | 0.7404               |                            | 0.0000                  | 0.454                               |         |
| 6.1.2002        | 483.90                 | 30.123                            | -0.273                                | 50                    | 0.1234             | 300                     | 0.7404               |                            | 0.0000                  | 0.591                               |         |
| 7.1.2002        | 483.60                 | 29.714                            | -0.410                                | 100                   | 0.2468             | 300                     | 0.7404               |                            | 0.0000                  | 0.578                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-3.345</b>                         |                       | <b>0.987</b>       |                         | <b>5.183</b>         |                            | <b>0.000</b>            | <b>2.825</b>                        |         |
| 8.1.2002        | 483.30                 | 29.304                            | -0.410                                | 100                   | 0.2468             | 300                     | 0.7404               |                            | 0.0000                  | 0.578                               |         |
| 9.1.2002        | 483.00                 | 28.895                            | -0.410                                | 100                   | 0.2468             | 300                     | 0.7404               |                            | 0.0000                  | 0.578                               |         |
| 10.1.2002       | 482.20                 | 27.819                            | -1.076                                | 100                   | 0.2468             | 300                     | 0.7404               |                            | 0.0000                  | 0.000                               |         |
| 11.1.2002       | 481.70                 | 27.216                            | -0.602                                | 150                   | 0.3702             | 900                     | 2.2211               |                            | 0.0000                  | 1.989                               |         |
| 12.1.2002       | 481.00                 | 26.373                            | -0.843                                | 150                   | 0.3702             | 900                     | 2.2211               |                            | 0.0000                  | 1.748                               |         |
| 13.1.2002       | 480.00                 | 25.168                            | -1.205                                | 150                   | 0.3702             | 900                     | 2.2211               |                            | 0.0000                  | 1.387                               |         |
| 14.1.2002       | 478.90                 | 23.858                            | -1.310                                | 150                   | 0.3702             | 900                     | 2.2211               |                            | 0.0000                  | 1.281                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-5.856</b>                         |                       | <b>2.221</b>       |                         | <b>11.106</b>        |                            | <b>0.000</b>            | <b>7.560</b>                        |         |
| 15.1.2002       | 477.70                 | 22.591                            | -1.267                                | 150                   | 0.3702             | 900                     | 2.2211               |                            | 0.0000                  | 1.324                               |         |
| 16.1.2002       | 476.40                 | 21.218                            | -1.373                                | 175                   | 0.4319             | 900                     | 2.2211               |                            | 0.0000                  | 1.280                               |         |
| 17.1.2002       | 475.00                 | 19.816                            | -1.402                                | 175                   | 0.4319             | 900                     | 2.2211               |                            | 0.0000                  | 1.251                               |         |
| 18.1.2002       | 474.00                 | 18.869                            | -0.947                                | 200                   | 0.4936             | 900                     | 2.2211               |                            | 0.0000                  | 1.768                               |         |
| 19.1.2002       | 472.90                 | 17.827                            | -1.042                                | 200                   | 0.4936             | 900                     | 2.2211               |                            | 0.0000                  | 1.673                               |         |
| 20.1.2002       | 471.20                 | 16.418                            | -1.409                                | 200                   | 0.4936             | 900                     | 2.2211               |                            | 0.0000                  | 1.306                               |         |
| 21.1.2002       | 470.00                 | 15.468                            | -0.951                                | 200                   | 0.4936             | 900                     | 2.2211               |                            | 0.0000                  | 1.764                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-8.390</b>                         |                       | <b>3.208</b>       |                         | <b>15.548</b>        |                            | <b>0.000</b>            | <b>10.366</b>                       |         |

| Date            | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                 |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 22.1.2002       | 469.00                 | 14.698                            | -0.769                                | 200                   | 0.4936             | 900                     | 2.2211               |                            | 0.0000                  | 1.945                               |         |
| 23.1.2002       | 468.30                 | 14.224                            | -0.474                                | 200                   | 0.4936             | 900                     | 2.2211               |                            | 0.0000                  | 2.240                               |         |
| 24.1.2002       | 468.20                 | 14.156                            | -0.068                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.426                               |         |
| 25.1.2002       | 468.10                 | 14.089                            | -0.068                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.426                               |         |
| 26.1.2002       | 468.00                 | 14.021                            | -0.068                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.426                               |         |
| 27.1.2002       | 468.00                 | 14.021                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.494                               |         |
| 28.1.2002       | 468.20                 | 14.156                            | 0.136                                 | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.629                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-1.311</b>                         |                       | <b>3.455</b>       |                         | <b>4.442</b>         |                            | <b>0.000</b>            | <b>6.586</b>                        |         |
| 29.1.2002       | 468.40                 | 14.292                            | 0.136                                 | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.629                               |         |
| 30.1.2002       | 468.20                 | 14.156                            | -0.136                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.358                               |         |
| 31.12.2002      | 468.00                 | 14.021                            | -0.136                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.358                               |         |
| <b>1.2.2002</b> | 467.70                 | 13.818                            | -0.203                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.290                               |         |
| 2.2.2002        | 467.60                 | 13.750                            | -0.068                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.056                               |         |
| 3.2.2002        | 467.50                 | 13.682                            | -0.068                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.056                               |         |
| 4.2.2002        | 467.50                 | 13.682                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.123                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-0.474</b>                         |                       | <b>2.345</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.870</b>                        |         |
| 5.2.2002        | 467.20                 | 13.479                            | -0.203                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6.2.2002        | 467.10                 | 13.411                            | -0.068                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.056                               |         |
| 7.2.2002        | 466.90                 | 13.276                            | -0.136                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8.2.2002        | 466.80                 | 13.208                            | -0.068                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.056                               |         |
| 9.2.2002        | 466.70                 | 13.140                            | -0.068                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.056                               |         |
| 10.2.2002       | 466.70                 | 13.140                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.123                               |         |
| 11.2.2002       | 466.60                 | 13.072                            | -0.068                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.056                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-0.610</b>                         |                       | <b>0.864</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.346</b>                        |         |
| 12.2.2002       | 466.50                 | 13.005                            | -0.068                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.056                               |         |
| 13.2.2002       | 466.50                 | 13.005                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.123                               |         |
| 14.2.2002       | 466.40                 | 12.937                            | -0.068                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.056                               |         |
| 15.2.2002       | 466.40                 | 12.937                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.123                               |         |
| 16.2.2002       | 465.80                 | 12.541                            | -0.396                                |                       | 0.0000             | 500                     | 1.2339               |                            | 0.0000                  | 0.838                               |         |
| 17.2.2002       | 465.00                 | 12.081                            | -0.459                                |                       | 0.0000             | 500                     | 1.2339               |                            | 0.0000                  | 0.775                               |         |

| Date            | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                 |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 18.2.2002       | 464.10                 | 11.564                            | -0.517                                |                       | 0.0000             | 500                     | 1.2339               |                            | 0.0000                  | 0.717                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-1.508</b>                         |                       | <b>0.494</b>       |                         | <b>3.702</b>         |                            | <b>0.000</b>            | <b>2.688</b>                        |         |
| 19.2.2002       | 463.00                 | 10.933                            | -0.632                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.972                               |         |
| 20.2.2002       | 462.50                 | 10.655                            | -0.278                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.216                               |         |
| 21.2.2002       | 462.10                 | 10.462                            | -0.193                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.301                               |         |
| 22.2.2002       | 461.60                 | 10.221                            | -0.241                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.252                               |         |
| 23.2.2002       | 461.00                 | 9.931                             | -0.289                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.204                               |         |
| 24.2.2002       | 460.50                 | 9.690                             | -0.241                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.252                               |         |
| 25.2.2002       | 460.00                 | 9.449                             | -0.241                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 2.227                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-2.115</b>                         |                       | <b>3.332</b>       |                         | <b>3.208</b>         |                            | <b>0.000</b>            | <b>4.425</b>                        |         |
| 26.2.2002       | 458.70                 | 8.821                             | -0.628                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 1.840                               |         |
| 27.2.2002       | 457.00                 | 8.158                             | -0.663                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 1.805                               |         |
| 28.2.2002       | 455.00                 | 7.419                             | -0.739                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 1.729                               |         |
| <b>1.3.2002</b> | 452.8                  | 6.687                             | -0.732                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 1.736                               |         |
| 2.3.2002        | 450.5                  | 6.055                             | -0.633                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 1.835                               |         |
| 3.3.2002        | 448                    | 5.409                             | -0.646                                | 200                   | 0.4936             | 400                     | 0.9872               |                            | 0.0000                  | 0.835                               |         |
| 4.3.2002        | 445.5                  | 4.793                             | -0.616                                | 200                   | 0.4936             | 400                     | 0.9872               |                            | 0.0000                  | 0.865                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-4.656</b>                         |                       | <b>3.455</b>       |                         | <b>11.846</b>        |                            | <b>0.000</b>            | <b>10.645</b>                       |         |
| 5.3.2002        | 443                    | 4.160                             | -0.633                                | 200                   | 0.4936             | 400                     | 0.9872               |                            | 0.0000                  | 0.848                               |         |
| 6.3.2002        | 442                    | 3.937                             | -0.222                                | 150                   | 0.3702             | 250                     | 0.6170               |                            | 0.0000                  | 0.765                               |         |
| 7.3.2002        | 441.4                  | 3.789                             | -0.148                                | 150                   | 0.3702             | 250                     | 0.6170               |                            | 0.0000                  | 0.839                               |         |
| 8.3.2002        | 440.8                  | 3.641                             | -0.148                                | 150                   | 0.3702             | 250                     | 0.6170               |                            | 0.0000                  | 0.839                               |         |
| 9.3.2002        | 440.1                  | 3.468                             | -0.173                                | 150                   | 0.3702             | 250                     | 0.6170               |                            | 0.0000                  | 0.814                               |         |
| 10.3.2002       | 439                    | 3.204                             | -0.264                                | 150                   | 0.3702             | 250                     | 0.6170               |                            | 0.0000                  | 0.723                               |         |
| 11.3.2002       | 438.1                  | 2.992                             | -0.212                                | 150                   | 0.3702             | 250                     | 0.6170               |                            | 0.0000                  | 0.775                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-1.801</b>                         |                       | <b>2.715</b>       |                         | <b>4.689</b>         |                            | <b>0.000</b>            | <b>5.603</b>                        |         |
| 12.3.2002       | 436.8                  | 2.686                             | -0.306                                | 150                   | 0.3702             | 250                     | 0.6170               |                            | 0.0000                  | 0.681                               |         |
| 13.3.2002       | 436                    | 2.499                             | -0.187                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.307                               |         |
| 14.3.2002       | 435                    | 2.267                             | -0.232                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.262                               |         |
| 15.3.2002       | 434.6                  | 2.174                             | -0.093                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.401                               |         |

| Date            | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                 |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 16.3.2002       | 434                    | 2.012                             | -0.162                                | 200                   | 0.4936             | 300                     | 0.7404               |                            | 0.0000                  | 1.072                               |         |
| 17.3.2002       | 432.7                  | 1.735                             | -0.277                                | 200                   | 0.4936             | 300                     | 0.7404               |                            | 0.0000                  | 0.957                               |         |
| 18.3.2002       | 432                    | 1.576                             | -0.160                                | 200                   | 0.4936             | 300                     | 0.7404               |                            | 0.0000                  | 1.074                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-1.416</b>                         |                       | <b>3.332</b>       |                         | <b>2.838</b>         |                            | <b>0.000</b>            | <b>4.754</b>                        |         |
| 19.3.2002       | 430.7                  | 1.280                             | -0.296                                | 200                   | 0.4936             | 300                     | 0.7404               |                            | 0.0000                  | 0.938                               |         |
| 20.3.2002       | 430                    | 1.120                             | -0.160                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.211                               |         |
| 21.3.2002       | 429.7                  | 1.052                             | -0.068                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.302                               |         |
| 22.3.2002       | 429.3                  | 0.963                             | -0.090                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.281                               |         |
| 23.3.2002       | 428.9                  | 0.873                             | -0.090                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.157                               |         |
| 24.3.2002       | 428.6                  | 0.806                             | -0.067                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.180                               |         |
| 25.3.2002       | 428.2                  | 0.716                             | -0.090                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.157                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-0.860</b>                         |                       | <b>2.345</b>       |                         | <b>0.740</b>         |                            | <b>0.000</b>            | <b>2.225</b>                        |         |
| 26.3.2002       |                        | 0.000                             | -0.716                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27.3.2002       |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28.3.2002       |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29.3.2002       |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30.3.2002       |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31.3.2002       |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>1.4.2002</b> | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-0.716</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 2.4.2002        | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3.4.2002        | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4.4.2002        |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5.4.2002        | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6.4.2002        |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7.4.2002        |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8.4.2002        | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 9.4.2002        |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10.4.2002       |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |



| Date            | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                 |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 11.4.2002       |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12.4.2002       |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13.4.2002       | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14.4.2002       |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15.4.2002       |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 16.4.2002       |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17.4.2002       | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18.4.2002       |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19.4.2002       |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20.4.2002       |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21.4.2002       | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22.4.2002       |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 23.4.2002       |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24.4.2002       |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25.2.2002       |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26.4.2002       |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27.4.2002       |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28.4.2002       | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29.4.2002       |                        | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 30.4.2002       | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>1.5.2002</b> | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2.5.2002        | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3.5.2002        | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4.5.2002        | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5.5.2002        | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6.5.2002        | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |

| Date            | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                 |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 7.5.2002        | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8.5.2002        | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9.5.2002        | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10.5.2002       | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11.5.2002       | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12.5.2002       | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13.5.2002       | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 14.5.2002       | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15.5.2002       | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16.5.2002       | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17.5.2002       | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18.5.2002       | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19.5.2002       | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20.5.2002       | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 21.5.2002       | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22.5.2002       | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23.5.2002       | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24.5.2002       | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25.5.2002       | 430.00                 | 1.120                             | 1.120                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.120                               |         |
| 26.5.2002       | 430.50                 | 1.234                             | 0.114                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.114                               |         |
| 27.5.2002       | 430.60                 | 1.234                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>1.234</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.234</b>                        |         |
| 28.5.2002       | 430.60                 | 1.234                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29.5.2002       | 436.00                 | 2.499                             | 1.265                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.265                               |         |
| 30.5.2002       | 436.00                 | 2.499                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31.5.2002       | 436.00                 | 2.499                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>1.6.2002</b> | 437.00                 | 2.733                             | 0.234                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.234                               |         |
| 2.6.2002        | 438.00                 | 2.968                             | 0.236                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.236                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 3.6.2002     | 438.50                 | 3.063                             | 0.094                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.094                               |         |
| <b>TOTAL</b> |                        |                                   | <b>1.829</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.829</b>                        |         |
| 4.6.2002     | 438.50                 | 3.063                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5.6.2002     | 438.70                 | 3.133                             | 0.071                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.071                               |         |
| 6.6.2002     | 438.80                 | 3.157                             | 0.024                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.024                               |         |
| 7.6.2002     | 438.80                 | 3.157                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8.6.2002     | 439.10                 | 3.228                             | 0.071                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.071                               |         |
| 9.6.2002     | 439.50                 | 3.322                             | 0.094                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.094                               |         |
| 10.6.2002    | 440.20                 | 3.493                             | 0.171                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.171                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.430</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.430</b>                        |         |
| 11.6.2002    | 441.20                 | 3.740                             | 0.247                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 12.6.2002    | 442.60                 | 4.086                             | 0.346                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.346                               |         |
| 13.6.2002    | 442.70                 | 4.110                             | 0.025                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.025                               |         |
| 14.6.2002    | 442.70                 | 4.110                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15.6.2002    | 442.90                 | 4.160                             | 0.049                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.049                               |         |
| 16.6.2002    | 443.10                 | 4.208                             | 0.049                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.049                               |         |
| 17.6.2002    | 443.10                 | 4.208                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.716</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.716</b>                        |         |
| 18.6.2002    | 444.40                 | 4.525                             | 0.317                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.317                               |         |
| 19.6.2002    | 444.60                 | 4.574                             | 0.049                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.049                               |         |
| 20.6.2002    | 444.70                 | 4.598                             | 0.024                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.024                               |         |
| 21.6.2002    | 444.70                 | 4.598                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22.6.2002    | 448.30                 | 5.483                             | 0.885                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.885                               |         |
| 23.6.2002    | 448.50                 | 5.532                             | 0.049                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.049                               |         |
| 24.6.2002    | 451.10                 | 6.220                             | 0.687                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.687                               |         |
| <b>TOTAL</b> |                        |                                   | <b>2.011</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>2.011</b>                        |         |
| 25.6.2002    | 451.30                 | 6.275                             | 0.055                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.055                               |         |
| 26.6.2002    | 451.80                 | 6.412                             | 0.138                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.138                               |         |
| 27.6.2002    | 452.20                 | 6.522                             | 0.110                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.110                               |         |
| 28.6.2002    | 453.00                 | 6.721                             | 0.198                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.198                               |         |

| Date            | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                 |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 29.6.2002       | 453.50                 | 6.920                             | 0.200                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.200                               |         |
| 30.6.2002       | 454.10                 | 7.087                             | 0.166                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.166                               |         |
| <b>1.7.2002</b> | 458.30                 | 8.697                             | 1.610                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.610                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>2.477</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>2.477</b>                        |         |
| 2.7.2002        | 462.80                 | 10.818                            | 2.121                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.121                               |         |
| 3.7.2002        | 471.90                 | 16.894                            | 6.076                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 6.076                               |         |
| 4.7.2002        | 475.20                 | 19.911                            | 3.017                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 3.017                               |         |
| 5.7.2002        | 480.50                 | 25.771                            | 5.860                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 5.860                               |         |
| 6.7.2002        | 483.70                 | 29.850                            | 4.080                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 4.080                               |         |
| 7.7.2002        | 483.50                 | 29.577                            | -0.273                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8.7.2002        | 483.10                 | 28.895                            | -0.683                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>20.198</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>21.153</b>                       |         |
| 9.7.2002        | 482.90                 | 28.758                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10.7.2002       | 482.70                 | 28.485                            | -0.273                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11.7.2002       | 482.70                 | 28.485                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12.7.2002       | 482.50                 | 28.212                            | -0.273                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13.7.2002       | 481.90                 | 27.457                            | -0.755                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14.7.2002       | 481.70                 | 27.216                            | -0.241                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15.7.2002       | 481.50                 | 26.975                            | -0.241                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-1.919</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 16.7.2002       | 481.20                 | 26.614                            | -0.361                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17.7.2002       | 481.20                 | 26.614                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18.7.2002       | 481.10                 | 26.493                            | -0.120                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19.7.2002       | 481.50                 | 26.975                            | 0.482                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.482                               |         |
| 20.7.2002       | 481.00                 | 26.373                            | -0.602                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.632                               |         |
| 21.7.2002       | 481.10                 | 26.493                            | 0.120                                 | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 1.354                               |         |
| 22.7.2002       | 482.00                 | 27.457                            | 0.964                                 | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 2.198                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>0.482</b>                          |                       | <b>0.740</b>       |                         | <b>2.961</b>         |                            | <b>0.000</b>            | <b>4.666</b>                        |         |
| 23.7.2002       | 484.20                 | 30.396                            | 2.939                                 | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 4.173                               |         |
| 24.7.2002       | 488.60                 | 37.054                            | 6.658                                 | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 7.275                               |         |

| Date            | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                 |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 25.7.2002       | 489.60                 | 38.719                            | 1.665                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.665                               |         |
| 26.7.2002       | 489.80                 | 38.891                            | 0.172                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.172                               |         |
| 27.7.2002       | 489.80                 | 38.891                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 28.7.2002       | 489.90                 | 39.235                            | 0.344                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.714                               |         |
| 29.7.2002       | 489.30                 | 38.203                            | -1.032                                | 150                   | 0.3702             | 100                     | 0.2468               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>10.746</b>                         |                       | <b>1.357</b>       |                         | <b>1.728</b>         |                            | <b>0.000</b>            | <b>14.246</b>                       |         |
| 30.7.2002       | 489.80                 | 38.891                            | 0.688                                 | 150                   | 0.3702             | 100                     | 0.2468               |                            | 0.0000                  | 1.305                               |         |
| 31.7.2002       | 489.70                 | 38.891                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>1.8.2002</b> | 489.10                 | 37.859                            | -1.032                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 0.696                               |         |
| 2.8.2002        | 488.40                 | 36.747                            | -1.112                                | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 0.862                               |         |
| 3.8.2002        | 487.70                 | 35.671                            | -1.076                                | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 0.899                               |         |
| 4.8.2002        | 487.00                 | 34.595                            | -1.076                                | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 0.899                               |         |
| 5.8.2002        | 485.80                 | 32.751                            | -1.844                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 0.624                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-5.452</b>                         |                       | <b>2.838</b>       |                         | <b>7.897</b>         |                            | <b>0.000</b>            | <b>5.284</b>                        |         |
| 6.8.2002        | 484.60                 | 31.079                            | -1.672                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 0.795                               |         |
| 7.8.2002        | 483.30                 | 29.304                            | -1.775                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 0.693                               |         |
| 8.8.2002        | 482.10                 | 27.698                            | -1.606                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 0.862                               |         |
| 9.8.2002        | 480.70                 | 26.012                            | -1.687                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 0.781                               |         |
| 10.8.2002       | 479.50                 | 24.566                            | -1.446                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 1.022                               |         |
| 11.8.2002       | 479.70                 | 24.686                            | 0.120                                 | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 2.588                               |         |
| 12.8.2002       | 482.80                 | 28.622                            | 3.935                                 | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 6.403                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-4.130</b>                         |                       | <b>3.455</b>       |                         | <b>13.820</b>        |                            | <b>0.000</b>            | <b>13.146</b>                       |         |
| 13.8.2002       | 486.50                 | 33.827                            | 5.205                                 | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 7.673                               |         |
| 14.8.2002       | 490.50                 | 40.267                            | 6.440                                 | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 8.908                               |         |
| 15.8.2002       | 493.50                 | 45.757                            | 5.490                                 | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 7.958                               |         |
| 16.8.2002       | 495.00                 | 48.718                            | 2.961                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 3.208                               |         |
| 17.8.2002       | 497.10                 | 53.112                            | 4.394                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 4.641                               |         |
| 18.8.2002       | 498.50                 | 56.080                            | 2.968                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 3.215                               |         |
| 19.8.2002       | 499.40                 | 60.539                            | 4.459                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 4.705                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>31.917</b>                         |                       | <b>2.468</b>       |                         | <b>5.923</b>         |                            | <b>0.000</b>            | <b>40.308</b>                       |         |

| Date            | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                 |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 20.8.2002       | 500.00                 | 63.997                            | 3.458                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 3.705                               |         |
| 21.8.2003       | 500.65                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 308                        | 0.7601                  | 1.007                               |         |
| 22.8.2002       | 500.70                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 1137                       | 2.8060                  | 3.053                               |         |
| 23.8.2002       | 500.70                 | 63.997                            | 0.000                                 | 101                   | 0.2493             |                         | 0.0000               | 1138                       | 2.8085                  | 3.058                               |         |
| 24.8.2002       | 500.80                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 1388                       | 3.4254                  | 3.672                               |         |
| 25.8.2002       | 501.10                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 2216                       | 5.4689                  | 5.716                               |         |
| 26.8.2002       | 500.70                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 1137                       | 2.8060                  | 3.053                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>3.458</b>                          |                       | <b>1.730</b>       |                         | <b>0.000</b>         |                            | <b>18.075</b>           | <b>23.263</b>                       |         |
| 27.8.2002       | 500.50                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 694                        | 1.7127                  | 1.960                               |         |
| 28.8.2002       | 500.30                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 308                        | 0.7601                  | 1.007                               |         |
| 29.8.2002       | 500.30                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 308                        | 0.7601                  | 1.130                               |         |
| 30.8.2002       | 500.30                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 308                        | 0.7601                  | 1.130                               |         |
| 31.8.2002       | 500.20                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 173                        | 0.4269                  | 0.797                               |         |
| <b>1.9.2002</b> | 500.20                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 173                        | 0.4269                  | 0.797                               |         |
| 2.9.2002        | 500.15                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.529                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>0.000</b>                          |                       | <b>2.345</b>       |                         | <b>0.000</b>         |                            | <b>5.006</b>            | <b>7.350</b>                        |         |
| 3.9.2002        | 500.10                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 300                     | 0.7404               | 64.3                       | 0.1587                  | 1.393                               |         |
| 4.9.2002        | 500.10                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 300                     | 0.7404               | 64.3                       | 0.1587                  | 1.393                               |         |
| 5.9.2002        | 500.10                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 300                     | 0.7404               | 64.3                       | 0.1587                  | 1.393                               |         |
| 6.9.2002        | 500.00                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 300                     | 0.7404               |                            | 0.0000                  | 1.234                               |         |
| 7.9.2002        | 499.90                 | 62.844                            | -1.153                                | 200                   | 0.4936             | 300                     | 0.7404               |                            | 0.0000                  | 0.081                               |         |
| 8.9.2002        | 499.70                 | 62.268                            | -0.576                                | 200                   | 0.4936             | 300                     | 0.7404               |                            | 0.0000                  | 0.658                               |         |
| 9.9.2002        | 499.70                 | 62.268                            | 0.000                                 | 200                   | 0.4936             | 300                     | 0.7404               |                            | 0.0000                  | 1.234                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-1.729</b>                         |                       | <b>3.455</b>       |                         | <b>5.183</b>         |                            | <b>0.476</b>            | <b>7.384</b>                        |         |
| 10.9.2002       | 499.70                 | 62.268                            | 0.000                                 | 200                   | 0.4936             | 700                     | 1.7275               |                            | 0.0000                  | 2.221                               |         |
| 11.9.2002       | 499.50                 | 61.115                            | -1.153                                | 200                   | 0.4936             | 700                     | 1.7275               |                            | 0.0000                  | 1.068                               |         |
| 12.9.2002       | 500.70                 | 63.997                            | 2.882                                 | 200                   | 0.4936             | 300                     | 0.7404               | 1137                       | 2.8060                  | 6.922                               |         |
| 13.9.2002       | 500.50                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 300                     | 0.7404               | 694                        | 1.7127                  | 2.947                               |         |
| 14.9.2002       | 500.20                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 300                     | 0.7404               | 173                        | 0.4269                  | 1.661                               |         |
| 15.9.2002       | 500.10                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 300                     | 0.7404               | 64.3                       | 0.1587                  | 1.393                               |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 16.9.2002        | 500.10                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 300                     | 0.7404               | 64.3                       | 0.1587                  | 1.393                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>1.729</b>                          |                       | <b>3.455</b>       |                         | <b>7.157</b>         |                            | <b>5.263</b>            | <b>17.604</b>                       |         |
| 17.9.2002        | 499.70                 | 62.268                            | -1.729                                | 200                   | 0.4936             | 300                     | 0.7404               |                            | 0.0000                  | 0.000                               |         |
| 18.9.2002        | 499.70                 | 62.268                            | 0.000                                 | 200                   | 0.4936             | 300                     | 0.7404               |                            | 0.0000                  | 1.234                               |         |
| 19.9.2002        | 499.60                 | 61.691                            | -0.576                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 1.892                               |         |
| 20.9.2002        | 499.00                 | 58.233                            | -3.458                                | 200                   | 0.4936             | 800                     | 1.9743               |                            | 0.0000                  | 0.000                               |         |
| 21.9.2002        | 499.00                 | 58.233                            | 0.000                                 | 0                     | 0.0000             | 800                     | 1.9743               |                            | 0.0000                  | 1.974                               |         |
| 22.9.2002        | 499.10                 | 58.810                            | 0.576                                 | 150                   | 0.3702             | 800                     | 1.9743               |                            | 0.0000                  | 2.921                               |         |
| 23.9.2002        | 500.10                 | 63.997                            | 5.187                                 | 200                   | 0.4936             | 800                     | 1.9743               | 64.3                       | 0.1587                  | 7.814                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.000</b>                          |                       | <b>2.838</b>       |                         | <b>11.352</b>        |                            | <b>0.159</b>            | <b>15.835</b>                       |         |
| 24.9.2002        | 500.50                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 1000                    | 2.4679               | 694                        | 1.7127                  | 4.674                               |         |
| 25.9.2002        | 500.60                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 1000                    | 2.4679               | 906                        | 2.2359                  | 5.197                               |         |
| 26.9.2002        | 500.80                 | 63.997                            | 0.000                                 | 150                   | 0.3702             | 1000                    | 2.4679               | 1388                       | 3.4254                  | 6.264                               |         |
| 27.9.2002        | 501.30                 | 63.997                            | 0.000                                 | 150                   | 0.3702             | 1000                    | 2.4679               | 2852                       | 7.0384                  | 9.877                               |         |
| 28.9.2002        | 501.00                 | 63.997                            | 0.000                                 | 150                   | 0.3702             | 1000                    | 2.4679               | 1927                       | 4.7556                  | 7.594                               |         |
| 29.9.2002        | 500.80                 | 63.997                            | 0.000                                 | 150                   | 0.3702             | 1000                    | 2.4679               | 1388                       | 3.4254                  | 6.264                               |         |
| 30.9.2002        | 500.80                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 1000                    | 2.4679               | 1388                       | 3.4254                  | 6.387                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.000</b>                          |                       | <b>2.961</b>       |                         | <b>17.275</b>        |                            | <b>26.019</b>           | <b>46.256</b>                       |         |
| <b>1.10.2002</b> | 500.50                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 1000                    | 2.4679               | 694                        | 1.7127                  | 4.674                               |         |
| 2.10.2002        | 500.20                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 1000                    | 2.4679               | 173                        | 0.4269                  | 3.388                               |         |
| 3.10.2002        | 500.10                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 1000                    | 2.4679               | 64.3                       | 0.1587                  | 3.120                               |         |
| 4.10.2002        | 500.00                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 2.961                               |         |
| 5.10.2002        | 499.70                 | 62.268                            | -1.729                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.232                               |         |
| 6.10.2002        | 499.40                 | 60.539                            | -1.729                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.232                               |         |
| 7.10.2002        | 499.10                 | 58.810                            | -1.729                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.232                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-5.187</b>                         |                       | <b>3.455</b>       |                         | <b>17.275</b>        |                            | <b>2.298</b>            | <b>17.841</b>                       |         |
| 8.10.2002        | 498.50                 | 56.080                            | -2.730                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 0.726                               |         |
| 9.10.2002        | 497.70                 | 54.384                            | -1.696                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 1.759                               |         |
| 10.10.2002       | 497.10                 | 53.112                            | -1.272                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 2.183                               |         |
| 11.10.2002       | 496.60                 | 52.052                            | -1.060                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 2.395                               |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 12.10.2002       | 495.90                 | 50.568                            | -1.484                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 1.971                               |         |
| 13.10.2002       | 495.50                 | 49.720                            | -0.848                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 2.607                               |         |
| 14.10.2002       | 495.00                 | 48.718                            | -1.002                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 2.453                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-10.092</b>                        |                       | <b>3.455</b>       |                         | <b>20.730</b>        |                            | <b>0.000</b>            | <b>14.094</b>                       |         |
| 15.10.2002       | 494.40                 | 47.534                            | -1.184                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 2.271                               |         |
| 16.10.2002       | 493.70                 | 46.152                            | -1.382                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 2.073                               |         |
| 17.10.2002       | 492.80                 | 44.375                            | -1.777                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 1.678                               |         |
| 18.10.2002       | 492.10                 | 43.019                            | -1.356                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 2.099                               |         |
| 19.10.2002       | 492.00                 | 42.675                            | -0.344                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 3.111                               |         |
| 20.10.2002       | 491.60                 | 42.159                            | -0.516                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 2.939                               |         |
| 21.10.2002       | 491.00                 | 41.127                            | -1.032                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 2.423                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-7.591</b>                         |                       | <b>3.455</b>       |                         | <b>20.730</b>        |                            | <b>0.000</b>            | <b>16.594</b>                       |         |
| 22.10.2002       | 490.80                 | 40.783                            | -0.344                                | 150                   | 0.3702             | 1200                    | 2.9615               |                            | 0.0000                  | 2.988                               |         |
| 23.10.2002       | 489.90                 | 39.235                            | -1.548                                | 150                   | 0.3702             | 1200                    | 2.9615               |                            | 0.0000                  | 1.784                               |         |
| 24.10.2002       | 489.10                 | 37.859                            | -1.376                                | 150                   | 0.3702             | 1200                    | 2.9615               |                            | 0.0000                  | 1.956                               |         |
| 25.10.2002       | 488.40                 | 36.747                            | -1.112                                | 150                   | 0.3702             | 1200                    | 2.9615               |                            | 0.0000                  | 2.219                               |         |
| 26.10.2002       | 488.20                 | 36.439                            | -0.307                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.063                               |         |
| 27.10.2002       | 488.40                 | 36.747                            | 0.307                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.678                               |         |
| 28.10.2002       | 488.70                 | 37.054                            | 0.307                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.678                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-4.073</b>                         |                       | <b>2.591</b>       |                         | <b>11.846</b>        |                            | <b>0.000</b>            | <b>10.365</b>                       |         |
| 29.10.2002       | 488.70                 | 37.054                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.370                               |         |
| 30.10.2002       | 488.70                 | 37.054                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.370                               |         |
| 31.10.2002       | 488.70                 | 37.054                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.370                               |         |
| <b>1.11.2002</b> | 488.6                  | 37.054                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.370                               |         |
| 2.11.2002        | 488.5                  | 36.900                            | -0.154                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.217                               |         |
| 3.11.2002        | 488.5                  | 36.900                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.370                               |         |
| 4.11.2002        | 488.4                  | 36.747                            | -0.154                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.217                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.307</b>                         |                       | <b>2.591</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>2.284</b>                        |         |
| 5.11.2002        | 488.3                  | 36.593                            | -0.154                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.217                               |         |
| 6.11.2002        | 488.3                  | 36.593                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |



| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 7.11.2002        | 488.3                  | 36.593                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8.11.2002        | 488.4                  | 36.747                            | 0.154                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.154                               |         |
| 9.11.2002        | 488.4                  | 36.747                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10.11.2002       | 488.5                  | 36.900                            | 0.154                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.154                               |         |
| 11.11.2002       | 488.5                  | 36.900                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.154</b>                          |                       | <b>0.370</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.524</b>                        |         |
| 12.11.2002       | 488.6                  | 37.054                            | 0.154                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.154                               |         |
| 13.11.2002       | 488.7                  | 37.054                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14.11.2002       | 488.7                  | 37.054                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15.11.2002       | 488.8                  | 37.361                            | 0.307                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.307                               |         |
| 16.11.2002       | 488.9                  | 37.515                            | 0.154                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.154                               |         |
| 17.11.2002       | 488.9                  | 37.515                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18.11.2002       | 489                    | 37.687                            | 0.172                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.172                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.787</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.787</b>                        |         |
| 19.11.2002       | 489                    | 37.687                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20.11.2002       | 489.1                  | 37.859                            | 0.172                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.172                               |         |
| 21.11.2002       | 489.1                  | 37.859                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22.11.2002       | 489.1                  | 37.859                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23.11.2002       | 489.2                  | 38.031                            | 0.172                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.172                               |         |
| 24.11.2002       | 489.3                  | 38.203                            | 0.172                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.172                               |         |
| 25.11.2002       | 489.4                  | 38.375                            | 0.172                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.172                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.688</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.688</b>                        |         |
| 26.11.2002       | 489.4                  | 38.375                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27.11.2002       | 489.5                  | 38.547                            | 0.172                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.172                               |         |
| 28.11.2002       | 489.5                  | 38.547                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29.11.2002       | 489.7                  | 38.891                            | 0.344                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.344                               |         |
| 30.11.2002       | 489.7                  | 38.891                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>1.12.2002</b> | 489.60                 | 38.719                            | -0.172                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2.12.2002        | 489.60                 | 38.719                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.344</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.516</b>                        |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 3.12.2002    | 489.60                 | 38.719                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4.12.2002    | 489.50                 | 38.547                            | -0.172                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5.12.2002    | 489.50                 | 38.547                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6.12.2002    | 489.40                 | 38.375                            | -0.172                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7.12.2002    | 489.40                 | 38.375                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8.12.2002    | 489.40                 | 38.375                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9.12.2002    | 489.40                 | 38.375                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-0.344</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 10.12.2002   | 489.30                 | 38.203                            | -0.172                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11.12.2002   | 489.30                 | 38.203                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12.12.2002   | 489.20                 | 38.031                            | -0.172                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13.12.2002   | 489.20                 | 38.031                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14.12.2002   | 489.20                 | 38.031                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15.12.2002   | 489.20                 | 38.031                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16.12.2002   | 489.00                 | 37.687                            | -0.344                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-0.688</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 17.12.2002   | 489.00                 | 37.687                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18.12.2002   | 488.90                 | 37.515                            | -0.172                                | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.137                               |         |
| 19.12.2002   | 488.80                 | 37.361                            | -0.154                                | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.155                               |         |
| 20.12.2002   | 488.60                 | 37.054                            | -0.307                                | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.001                               |         |
| 21.12.2002   | 488.40                 | 36.747                            | -0.307                                | 125                   | 0.3085             | 500                     | 1.2339               |                            | 0.0000                  | 1.235                               |         |
| 22.12.2002   | 488.10                 | 36.286                            | -0.461                                | 125                   | 0.3085             | 500                     | 1.2339               |                            | 0.0000                  | 1.081                               |         |
| 23.12.2002   | 487.60                 | 35.517                            | -0.768                                | 125                   | 0.3085             | 500                     | 1.2339               |                            | 0.0000                  | 0.774                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-2.170</b>                         |                       | <b>1.851</b>       |                         | <b>3.702</b>         |                            | <b>0.000</b>            | <b>3.383</b>                        |         |
| 24.12.2002   | 487.10                 | 34.749                            | -0.768                                | 125                   | 0.3085             | 500                     | 1.2339               |                            | 0.0000                  | 0.774                               |         |
| 25.12.2002   | 486.60                 | 33.981                            | -0.768                                | 125                   | 0.3085             | 500                     | 1.2339               |                            | 0.0000                  | 0.774                               |         |
| 26.12.2002   | 485.80                 | 32.751                            | -1.229                                | 125                   | 0.3085             | 500                     | 1.2339               |                            | 0.0000                  | 0.313                               |         |
| 27.12.2002   | 484.80                 | 31.352                            | -1.399                                | 125                   | 0.3085             | 500                     | 1.2339               |                            | 0.0000                  | 0.143                               |         |
| 28.12.2002   | 484.10                 | 30.396                            | -0.956                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.649                               |         |
| 29.12.2002   | 483.40                 | 29.441                            | -0.956                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.649                               |         |

| Date            | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                 |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 30.12.2002      | 482.40                 | 28.076                            | -1.365                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.239                               |         |
| 31.12.2002      | 481.20                 | 26.614                            | -1.462                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.142                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-8.903</b>                         |                       | <b>2.715</b>       |                         | <b>9.872</b>         |                            | <b>0.000</b>            | <b>3.683</b>                        |         |
| <b>1.1.2003</b> | 480.30                 | 25.530                            | -1.084                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.520                               |         |
| 2.1.2003        | 479.40                 | 24.445                            | -1.084                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.520                               |         |
| 3.1.2003        | 478.60                 | 23.435                            | -1.010                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.594                               |         |
| 4.1.2003        | 477.80                 | 22.696                            | -0.739                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.865                               |         |
| 5.1.2003        | 476.90                 | 21.746                            | -0.950                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.654                               |         |
| 6.1.2003        | 476.00                 | 20.796                            | -0.950                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.654                               |         |
| 7.1.2003        | 475.00                 | 19.816                            | -0.980                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.624                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-6.798</b>                         |                       | <b>2.591</b>       |                         | <b>8.638</b>         |                            | <b>0.000</b>            | <b>4.431</b>                        |         |
| 8.1.2003        | 473.80                 | 18.680                            | -1.136                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.468                               |         |
| 9.1.2003        | 472.80                 | 17.733                            | -0.947                                | 150                   | 0.3702             | 500                     | 1.2339               |                            | 0.0000                  | 0.657                               |         |
| 10.1.2003       | 472.80                 | 17.733                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11.1.2003       | 472.80                 | 17.733                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12.1.2003       | 472.80                 | 17.733                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13.1.2003       | 472.70                 | 17.638                            | -0.095                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14.1.2003       | 472.70                 | 17.638                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-2.178</b>                         |                       | <b>0.740</b>       |                         | <b>2.468</b>         |                            | <b>0.000</b>            | <b>1.125</b>                        |         |
| 15.1.2003       | 472.60                 | 17.543                            | -0.095                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16.1.2003       | 472.60                 | 17.543                            | 0.000                                 |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.740                               |         |
| 17.1.2003       | 472.00                 | 17.052                            | -0.491                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.250                               |         |
| 18.1.2003       | 471.30                 | 16.498                            | -0.555                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.186                               |         |
| 19.1.2003       | 470.70                 | 15.943                            | -0.555                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.186                               |         |
| 20.1.2003       | 470.10                 | 15.547                            | -0.396                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.344                               |         |
| 21.1.2003       | 469.30                 | 14.913                            | -0.634                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.477                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-2.725</b>                         |                       | <b>0.370</b>       |                         | <b>4.442</b>         |                            | <b>0.000</b>            | <b>2.182</b>                        |         |
| 22.1.2003       | 468.80                 | 14.563                            | -0.350                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.760                               |         |
| 23.1.2003       | 468.30                 | 14.224                            | -0.339                                | 175                   | 0.4319             | 700                     | 1.7275               |                            | 0.0000                  | 1.821                               |         |
| 24.1.2003       | 467.10                 | 13.411                            | -0.813                                | 175                   | 0.4319             | 700                     | 1.7275               |                            | 0.0000                  | 1.346                               |         |

| Date            | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                 |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 25.1.2003       | 465.60                 | 12.426                            | -0.985                                | 175                   | 0.4319             | 700                     | 1.7275               |                            | 0.0000                  | 1.174                               |         |
| 26.1.2003       | 464.00                 | 11.450                            | -0.976                                | 175                   | 0.4319             | 700                     | 1.7275               |                            | 0.0000                  | 1.183                               |         |
| 27.1.2003       | 462.30                 | 10.558                            | -0.891                                | 175                   | 0.4319             | 700                     | 1.7275               |                            | 0.0000                  | 1.268                               |         |
| 28.1.2003       | 460.40                 | 9.642                             | -0.916                                | 175                   | 0.4319             | 700                     | 1.7275               |                            | 0.0000                  | 1.243                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-5.271</b>                         |                       | <b>2.961</b>       |                         | <b>11.106</b>        |                            | <b>0.000</b>            | <b>8.796</b>                        |         |
| 29.1.2003       | 459.00                 | 8.987                             | -0.655                                | 175                   | 0.4319             | 700                     | 1.7275               |                            | 0.0000                  | 1.505                               |         |
| 30.1.2003       | 457.70                 | 8.448                             | -0.539                                | 175                   | 0.4319             | 700                     | 1.7275               |                            | 0.0000                  | 1.621                               |         |
| 31.1.2003       | 456.20                 | 7.827                             | -0.622                                | 175                   | 0.4319             | 700                     | 1.7275               |                            | 0.0000                  | 1.538                               |         |
| <b>1.2.2003</b> | 454.30                 | 7.186                             | -0.640                                | 175                   | 0.4319             | 700                     | 1.7275               |                            | 0.0000                  | 1.519                               |         |
| 2.2.2003        | 453.90                 | 7.053                             | -0.133                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.299                               |         |
| 3.2.2003        | 453.60                 | 6.954                             | -0.100                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.147                               |         |
| 4.2.2003        | 453.30                 | 6.854                             | -0.100                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.147                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-2.788</b>                         |                       | <b>2.653</b>       |                         | <b>6.910</b>         |                            | <b>0.000</b>            | <b>6.775</b>                        |         |
| 5.2.2003        | 453.30                 | 6.854                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6.2.2003        | 453.20                 | 6.820                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7.2.2003        | 453.20                 | 6.820                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8.2.2003        | 453.10                 | 6.787                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9.2.2003        | 453.10                 | 6.787                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10.2.2003       | 453.00                 | 6.721                             | -0.067                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11.2.2003       | 453.00                 | 6.721                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-0.133</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 12.2.2003       | 453.00                 | 6.721                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13.2.2003       | 452.90                 | 6.721                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14.2.2003       | 452.70                 | 6.660                             | -0.061                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.186                               |         |
| 15.2.2003       | 452.60                 | 6.632                             | -0.028                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.219                               |         |
| 16.2.2003       | 452.40                 | 6.577                             | -0.055                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.192                               |         |
| 17.2.2003       | 451.60                 | 6.357                             | -0.220                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 1.261                               |         |
| 18.2.2003       | 450.00                 | 5.917                             | -0.440                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 1.041                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-0.803</b>                         |                       | <b>1.234</b>       |                         | <b>2.468</b>         |                            | <b>0.000</b>            | <b>2.898</b>                        |         |
| 19.2.2003       | 448.80                 | 5.607                             | -0.311                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 1.170                               |         |

| Date            | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                 |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 20.2.2003       | 447.70                 | 5.334                             | -0.272                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 1.209                               |         |
| 21.2.2003       | 446.30                 | 4.963                             | -0.371                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 1.110                               |         |
| 22.2.2003       | 445.10                 | 4.695                             | -0.268                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 1.213                               |         |
| 23.2.2003       | 445.10                 | 4.695                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24.2.2003       | 445.10                 | 4.695                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25.2.2003       | 445.00                 | 4.671                             | -0.024                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-1.246</b>                         |                       | <b>0.987</b>       |                         | <b>4.936</b>         |                            | <b>0.000</b>            | <b>4.701</b>                        |         |
| 26.2.2003       | 445.00                 | 4.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27.2.2003       | 445.00                 | 4.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28.2.2003       | 444.90                 | 4.647                             | -0.024                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>1.3.2003</b> | 444.90                 | 4.647                             | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.123                               |         |
| 2.3.2003        | 444.80                 | 4.622                             | -0.024                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.099                               |         |
| 3.3.2003        | 444.70                 | 4.598                             | -0.024                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.099                               |         |
| 4.3.2003        | 444.60                 | 4.574                             | -0.024                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.099                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-0.097</b>                         |                       | <b>0.494</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.421</b>                        |         |
| 5.3.2003        | 444.00                 | 4.428                             | -0.146                                | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 0.471                               |         |
| 6.3.2003        | 443.50                 | 4.306                             | -0.122                                | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 0.495                               |         |
| 7.3.2003        | 442.90                 | 4.160                             | -0.146                                | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 0.471                               |         |
| 8.3.2003        | 442.30                 | 4.012                             | -0.148                                | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 0.469                               |         |
| 9.3.2003        | 441.80                 | 3.888                             | -0.124                                | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 0.493                               |         |
| 10.3.2003       | 441.20                 | 3.740                             | -0.148                                | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 0.469                               |         |
| 11.3.2003       | 440.70                 | 3.591                             | -0.148                                | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 0.469                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-0.982</b>                         |                       | <b>0.864</b>       |                         | <b>3.455</b>         |                            | <b>0.000</b>            | <b>3.337</b>                        |         |
| 12.3.2003       | 440.60                 | 3.591                             | 0.000                                 | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.308                               |         |
| 13.3.2003       | 440.50                 | 3.567                             | -0.025                                | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.284                               |         |
| 14.3.2003       | 440.30                 | 3.517                             | -0.049                                | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.259                               |         |
| 15.3.2003       | 440.20                 | 3.493                             | -0.025                                | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.284                               |         |
| 16.3.2003       | 440.10                 | 3.468                             | -0.025                                | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.284                               |         |
| 17.3.2003       | 439.90                 | 3.419                             | -0.049                                | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.259                               |         |
| 18.3.2003       | 439.90                 | 3.419                             | 0.000                                 | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.308                               |         |

| Date            | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                 |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b>    |                        |                                   | <b>-0.173</b>                         |                       | <b>2.159</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.986</b>                        |         |
| 19.3.2003       | 439.70                 | 3.369                             | -0.049                                | 125                   | 0.3085             | 300                     | 0.7404               |                            | 0.0000                  | 0.999                               |         |
| 20.3.2003       | 439.00                 | 3.204                             | -0.165                                | 125                   | 0.3085             | 300                     | 0.7404               |                            | 0.0000                  | 0.884                               |         |
| 21.3.2003       | 438.40                 | 3.063                             | -0.141                                | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.599                               |         |
| 22.3.2003       | 437.80                 | 2.921                             | -0.141                                | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.599                               |         |
| 23.3.2003       | 437.20                 | 2.780                             | -0.141                                | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.599                               |         |
| 24.3.2003       | 436.60                 | 2.639                             | -0.141                                | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.599                               |         |
| 25.3.2003       | 436.10                 | 2.522                             | -0.117                                | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.624                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-0.897</b>                         |                       | <b>1.851</b>       |                         | <b>3.949</b>         |                            | <b>0.000</b>            | <b>4.903</b>                        |         |
| 26.3.2003       | 435.60                 | 2.406                             | -0.116                                | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.624                               |         |
| 27.3.2003       | 435.20                 | 2.313                             | -0.093                                | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.648                               |         |
| 28.3.2003       | 434.50                 | 2.151                             | -0.162                                | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.578                               |         |
| 29.3.2003       | 434.00                 | 2.012                             | -0.139                                | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.601                               |         |
| 30.3.2003       | 433.20                 | 1.850                             | -0.162                                | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.578                               |         |
| 31.3.2003       | 432.40                 | 1.667                             | -0.183                                | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.558                               |         |
| <b>1.4.2003</b> | 432.00                 | 1.576                             | -0.091                                | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.649                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-0.946</b>                         |                       | <b>1.728</b>       |                         | <b>3.455</b>         |                            | <b>0.000</b>            | <b>4.237</b>                        |         |
| 2.4.2003        | 431.60                 | 1.485                             | -0.091                                | 100                   | 0.2468             | 100                     | 0.2468               |                            | 0.0000                  | 0.402                               |         |
| 3.4.2003        | 431.20                 | 1.394                             | -0.091                                | 100                   | 0.2468             | 100                     | 0.2468               |                            | 0.0000                  | 0.402                               |         |
| 4.4.2003        | 430.90                 | 1.325                             | -0.068                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.302                               |         |
| 5.4.2003        | 430.60                 | 1.234                             | -0.091                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.279                               |         |
| 6.4.2003        | 430.20                 | 1.166                             | -0.068                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.302                               |         |
| 7.4.2003        | 429.80                 | 1.075                             | -0.091                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.279                               |         |
| 8.4.2003        | 429.40                 | 0.985                             | -0.090                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.281                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-0.591</b>                         |                       | <b>2.345</b>       |                         | <b>0.494</b>         |                            | <b>0.000</b>            | <b>2.247</b>                        |         |
| 9.4.2003        | 429.00                 | 0.895                             | -0.090                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.281                               |         |
| 10.4.2003       | 429.00                 | 0.895                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11.4.2003       | 429.00                 | 0.895                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12.4.2003       | 429.00                 | 0.895                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13.4.2003       | 429.00                 | 0.895                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date            | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                 |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 14.4.2003       | 428.90                 | 0.873                             | -0.022                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15.4.2003       | 428.90                 | 0.873                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-0.112</b>                         |                       | <b>0.370</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.281</b>                        |         |
| 16.4.2003       | 428.90                 | 0.873                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17.4.2003       | 428.90                 | 0.873                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18.4.2003       | 429.00                 | 0.895                             | 0.022                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.022                               |         |
| 19.4.2003       | 429.00                 | 0.895                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20.4.2003       | 429.00                 | 0.895                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21.4.2003       | 429.00                 | 0.895                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22.4.2003       | 429.10                 | 0.918                             | 0.022                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.022                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>0.045</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.045</b>                        |         |
| 23.4.2003       | 429.10                 | 0.918                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24.4.2003       | 429.10                 | 0.918                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25.4.2003       | 429.10                 | 0.918                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26.4.2003       | 429.00                 | 0.895                             | -0.022                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27.4.2003       | 429.00                 | 0.895                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28.4.2003       | 429.00                 | 0.895                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29.4.2003       | 429.00                 | 0.895                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-0.022</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 30.4.2003       | 429.00                 | 0.895                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>1.5.2003</b> | 429.00                 | 0.895                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2.5.2003        | 429.00                 | 0.895                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3.5.2003        | 429.00                 | 0.895                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4.5.2003        | 428.90                 | 0.873                             | -0.022                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5.5.2003        | 428.90                 | 0.873                             | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.247                               |         |
| 6.5.2003        | 428.70                 | 0.828                             | -0.045                                |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.202                               |         |
| <b>TOTAL</b>    |                        |                                   | <b>-0.067</b>                         |                       | <b>0.000</b>       |                         | <b>0.494</b>         |                            | <b>0.000</b>            | <b>0.449</b>                        |         |
| 7.5.2003        | 428.50                 | 0.783                             | -0.045                                |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.202                               |         |
| 8.5.2003        | 428.40                 | 0.739                             | -0.045                                |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.202                               |         |
| 9.5.2003        | 428.20                 | 0.716                             | -0.022                                |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.224                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 10.5.2003    | 428.00                 | 0.671                             | -0.045                                |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.202                               |         |
| 11.5.2003    | 427.70                 | 0.604                             | -0.067                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12.5.2003    | 427.50                 | 0.560                             | -0.045                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13.5.2003    | 427.30                 | 0.492                             | -0.067                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-0.336</b>                         |                       | <b>0.000</b>       |                         | <b>0.987</b>         |                            | <b>0.000</b>            | <b>0.830</b>                        |         |
| 14.5.2003    | 427.00                 | 0.448                             | -0.045                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15.5.2003    | 426.80                 | 0.403                             | -0.045                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16.5.2003    | 426.50                 | 0.336                             | -0.067                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17.5.2003    | 426.20                 | 0.232                             | -0.103                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18.5.2003    | 425.90                 | 0.181                             | -0.052                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19.5.2003    | 425.50                 | 0.077                             | -0.103                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20.5.2003    | 425.20                 | 0.000                             | -0.077                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-0.492</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 21.5.2003    | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22.5.2003    | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23.5.2003    | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24.5.2003    | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25.5.2003    | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26.5.2003    | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27.5.2003    | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 28.5.2003    | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29.5.2003    | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30.5.2003    | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31.5.2003    | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 1.6.2003     | 425.00                 | 0.000                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2.6.2003     | 426.00                 | 0.207                             | 0.207                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.207                               |         |
| 3.6.2003     | 428.00                 | 0.671                             | 0.465                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.465                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.671</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.671</b>                        |         |
| 4.6.2003     | 428.50                 | 0.783                             | 0.112                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.112                               |         |



| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 5.6.2003         | 429.90                 | 1.097                             | 0.314                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.314                               |         |
| 6.6.2003         | 431.00                 | 1.348                             | 0.251                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.251                               |         |
| 7.6.2003         | 432.00                 | 1.576                             | 0.228                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.228                               |         |
| 8.6.2003         | 433.50                 | 1.919                             | 0.343                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.343                               |         |
| 9.6.2003         | 435.00                 | 2.267                             | 0.348                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.348                               |         |
| 10.6.2003        | 435.00                 | 2.267                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>1.595</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.595</b>                        |         |
| 11.6.2003        | 435.40                 | 2.360                             | 0.093                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.093                               |         |
| 12.6.2003        | 436.40                 | 2.591                             | 0.232                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.232                               |         |
| 13.6.2003        | 437.20                 | 2.780                             | 0.189                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.189                               |         |
| 14.6.2003        | 438.70                 | 3.133                             | 0.354                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.354                               |         |
| 15.6.2003        | 439.00                 | 3.204                             | 0.071                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.071                               |         |
| 16.6.2003        | 441.60                 | 3.839                             | 0.634                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.634                               |         |
| 17.6.2003        | 442.80                 | 4.135                             | 0.296                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.296                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>1.868</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.868</b>                        |         |
| 18.6.2003        | 443.90                 | 4.403                             | 0.268                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.268                               |         |
| 19.6.2003        | 445.30                 | 4.744                             | 0.341                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.341                               |         |
| 20.6.2003        | 446.00                 | 4.915                             | 0.170                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.170                               |         |
| 21.6.2003        | 446.90                 | 5.136                             | 0.222                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.222                               |         |
| 22.6.2003        | 448.80                 | 5.607                             | 0.470                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.470                               |         |
| 23.6.2003        | 450.00                 | 5.917                             | 0.311                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.311                               |         |
| 24.6.2003        | 453.50                 | 6.920                             | 1.003                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.003                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>2.785</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>2.785</b>                        |         |
| 25.6.2003        | 455.20                 | 7.486                             | 0.566                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.566                               |         |
| 26.6.2003        | 455.40                 | 7.552                             | 0.067                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.067                               |         |
| 27.6.2003        | 456.90                 | 8.117                             | 0.564                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.564                               |         |
| 28.6.2003        | 457.20                 | 8.241                             | 0.124                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.124                               |         |
| 29.6.2003        | 464.80                 | 11.966                            | 3.725                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 3.725                               |         |
| 30.6.2003        | 470.60                 | 15.943                            | 3.977                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 3.977                               |         |
| <b>01-Jul-03</b> | 474.50                 | 19.343                            | 3.399                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 3.399                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b> |                        |                                   | <b>12.422</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>12.422</b>                       |         |
| 02-Jul-03    | 475.40                 | 20.195                            | 0.852                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.852                               |         |
| 03-Jul-03    | 475.70                 | 20.479                            | 0.284                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.284                               |         |
| 04-Jul-03    | 476.30                 | 21.007                            | 0.528                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.528                               |         |
| 05-Jul-03    | 476.50                 | 21.324                            | 0.317                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.317                               |         |
| 06-Jul-03    | 476.50                 | 21.324                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 07-Jul-03    | 476.60                 | 21.429                            | 0.106                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.106                               |         |
| 08-Jul-03    | 476.60                 | 21.429                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>2.087</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>2.087</b>                        |         |
| 09-Jul-03    | 480.70                 | 26.012                            | 4.582                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 4.582                               |         |
| 10-Jul-03    | 484.80                 | 31.352                            | 5.340                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 5.340                               |         |
| 11-Jul-03    | 484.80                 | 31.352                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12-Jul-03    | 484.80                 | 31.352                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13-Jul-03    | 486.50                 | 33.827                            | 2.475                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.475                               |         |
| 14-Jul-03    | 489.70                 | 38.891                            | 5.064                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 5.064                               |         |
| 15-Jul-03    | 492.60                 | 43.980                            | 5.089                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 5.089                               |         |
| <b>TOTAL</b> |                        |                                   | <b>22.551</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>22.551</b>                       |         |
| 16-Jul-03    | 493.50                 | 45.757                            | 1.777                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.777                               |         |
| 17-Jul-03    | 494.50                 | 47.731                            | 1.974                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.974                               |         |
| 18-Jul-03    | 494.90                 | 48.521                            | 0.790                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 1.036                               |         |
| 19-Jul-03    | 494.90                 | 48.521                            | 0.000                                 | 125                   | 0.3085             | 400                     | 0.9872               |                            | 0.0000                  | 1.296                               |         |
| 20-Jul-03    | 494.60                 | 47.928                            | -0.592                                | 125                   | 0.3085             | 400                     | 0.9872               |                            | 0.0000                  | 0.703                               |         |
| 21-Jul-03    | 494.10                 | 46.941                            | -0.987                                | 125                   | 0.3085             | 400                     | 0.9872               |                            | 0.0000                  | 0.309                               |         |
| 22-Jul-03    | 493.90                 | 46.546                            | -0.395                                | 125                   | 0.3085             | 400                     | 0.9872               |                            | 0.0000                  | 0.901                               |         |
| <b>TOTAL</b> |                        |                                   | <b>2.566</b>                          |                       | <b>1.481</b>       |                         | <b>3.949</b>         |                            | <b>0.000</b>            | <b>7.996</b>                        |         |
| 23-Jul-03    | 493.50                 | 45.757                            | -0.790                                | 125                   | 0.3085             | 400                     | 0.9872               |                            | 0.0000                  | 0.506                               |         |
| 24-Jul-03    | 493.20                 | 45.165                            | -0.592                                | 150                   | 0.3702             | 400                     | 0.9872               |                            | 0.0000                  | 0.765                               |         |
| 25-Jul-03    | 493.10                 | 44.770                            | -0.395                                | 150                   | 0.3702             | 400                     | 0.9872               |                            | 0.0000                  | 0.963                               |         |
| 26-Jul-03    | 493.30                 | 45.362                            | 0.592                                 | 150                   | 0.3702             | 400                     | 0.9872               |                            | 0.0000                  | 1.950                               |         |
| 27-Jul-03    | 493.10                 | 44.770                            | -0.592                                | 175                   | 0.4319             | 400                     | 0.9872               |                            | 0.0000                  | 0.827                               |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 28-Jul-03        | 492.70                 | 44.178                            | -0.592                                | 200                   | 0.4936             | 400                     | 0.9872               |                            | 0.0000                  | 0.889                               |         |
| 29-Jul-03        | 492.30                 | 43.388                            | -0.790                                | 200                   | 0.4936             | 1400                    | 3.4551               |                            | 0.0000                  | 3.159                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-3.159</b>                         |                       | <b>2.838</b>       |                         | <b>9.378</b>         |                            | <b>0.000</b>            | <b>9.058</b>                        |         |
| 30-Jul-03        | 491.20                 | 41.471                            | -1.917                                | 200                   | 0.4936             | 1400                    | 3.4551               |                            | 0.0000                  | 2.031                               |         |
| 31-Jul-03        | 493.30                 | 45.362                            | 3.891                                 | 200                   | 0.4936             | 1400                    | 3.4551               |                            | 0.0000                  | 7.840                               |         |
| <b>01-Aug-03</b> | 497.50                 | 53.960                            | 8.598                                 | 200                   | 0.4936             | 1400                    | 3.4551               |                            | 0.0000                  | 12.547                              |         |
| 02-Aug-03        | 499.70                 | 62.268                            | 8.308                                 | 200                   | 0.4936             | 1400                    | 3.4551               |                            | 0.0000                  | 12.257                              |         |
| 03-Aug-03        | 499.70                 | 62.268                            | 0.000                                 | 200                   | 0.4936             | 1400                    | 3.4551               |                            | 0.0000                  | 3.949                               |         |
| 04-Aug-03        | 499.30                 | 59.962                            | -2.305                                | 200                   | 0.4936             | 1400                    | 3.4551               |                            | 0.0000                  | 1.643                               |         |
| 05-Aug-03        | 498.80                 | 56.504                            | -3.458                                | 200                   | 0.4936             | 1400                    | 3.4551               |                            | 0.0000                  | 0.490                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>13.116</b>                         |                       | <b>3.455</b>       |                         | <b>24.185</b>        |                            | <b>0.000</b>            | <b>40.757</b>                       |         |
| 06-Aug-03        | 498.70                 | 56.504                            | 0.000                                 | 200                   | 0.4936             | 1400                    | 3.4551               |                            | 0.0000                  | 3.949                               |         |
| 07-Aug-03        | 498.20                 | 55.444                            | -1.060                                | 200                   | 0.4936             | 1400                    | 3.4551               |                            | 0.0000                  | 2.889                               |         |
| 08-Aug-03        | 497.30                 | 53.536                            | -1.908                                | 200                   | 0.4936             | 1400                    | 3.4551               |                            | 0.0000                  | 2.041                               |         |
| 09-Aug-03        | 496.40                 | 51.628                            | -1.908                                | 200                   | 0.4936             | 1400                    | 3.4551               |                            | 0.0000                  | 2.041                               |         |
| 10-Aug-03        | 495.30                 | 49.310                            | -2.318                                | 200                   | 0.4936             | 1400                    | 3.4551               |                            | 0.0000                  | 1.631                               |         |
| 11-Aug-03        | 494.20                 | 46.941                            | -2.369                                | 200                   | 0.4936             | 1400                    | 3.4551               |                            | 0.0000                  | 1.580                               |         |
| 12-Aug-03        | 493.20                 | 45.165                            | -1.777                                | 200                   | 0.4936             | 1400                    | 3.4551               |                            | 0.0000                  | 2.172                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-11.339</b>                        |                       | <b>3.455</b>       |                         | <b>24.185</b>        |                            | <b>0.000</b>            | <b>16.301</b>                       |         |
| 13-Aug-03        | 492.30                 | 43.388                            | -1.777                                | 200                   | 0.4936             | 1400                    | 3.4551               |                            | 0.0000                  | 2.172                               |         |
| 14-Aug-03        | 491.90                 | 42.675                            | -0.713                                | 200                   | 0.4936             | 1400                    | 3.4551               |                            | 0.0000                  | 3.235                               |         |
| 15-Aug-03        | 491.30                 | 41.643                            | -1.032                                | 200                   | 0.4936             | 1400                    | 3.4551               |                            | 0.0000                  | 2.917                               |         |
| 16-Aug-03        | 490.40                 | 40.095                            | -1.548                                | 210                   | 0.5183             | 1400                    | 3.4551               |                            | 0.0000                  | 2.425                               |         |
| 17-Aug-03        | 489.50                 | 38.547                            | -1.548                                | 210                   | 0.5183             | 1400                    | 3.4551               |                            | 0.0000                  | 2.425                               |         |
| 18-Aug-03        | 488.50                 | 36.900                            | -1.647                                | 210                   | 0.5183             | 1400                    | 3.4551               |                            | 0.0000                  | 2.327                               |         |
| 19-Aug-03        | 487.70                 | 35.671                            | -1.229                                | 210                   | 0.5183             | 1400                    | 3.4551               |                            | 0.0000                  | 2.744                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-9.494</b>                         |                       | <b>3.554</b>       |                         | <b>24.185</b>        |                            | <b>0.000</b>            | <b>18.246</b>                       |         |
| 20-Aug-03        | 488.10                 | 36.286                            | 0.615                                 | 210                   | 0.5183             | 1400                    | 3.4551               |                            | 0.0000                  | 4.588                               |         |
| 21-Aug-03        | 489.40                 | 38.375                            | 2.089                                 | 210                   | 0.5183             | 1400                    | 3.4551               |                            | 0.0000                  | 6.063                               |         |
| 22-Aug-03        | 490.10                 | 39.579                            | 1.204                                 | 210                   | 0.5183             | 1400                    | 3.4551               |                            | 0.0000                  | 5.177                               |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 23-Aug-03        | 489.50                 | 38.547                            | -1.032                                | 210                   | 0.5183             | 1400                    | 3.4551               |                            | 0.0000                  | 2.941                               |         |
| 24-Aug-03        | 488.60                 | 37.054                            | -1.493                                | 210                   | 0.5183             | 1400                    | 3.4551               |                            | 0.0000                  | 2.480                               |         |
| 25-Aug-03        | 487.70                 | 35.671                            | -1.383                                | 210                   | 0.5183             | 1400                    | 3.4551               |                            | 0.0000                  | 2.590                               |         |
| 26-Aug-03        | 486.60                 | 33.981                            | -1.690                                | 210                   | 0.5183             | 1400                    | 3.4551               |                            | 0.0000                  | 2.283                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-1.690</b>                         |                       | <b>3.628</b>       |                         | <b>24.185</b>        |                            | <b>0.000</b>            | <b>26.123</b>                       |         |
| 27-Aug-03        | 485.90                 | 32.905                            | -1.076                                | 210                   | 0.5183             | 1400                    | 3.4551               |                            | 0.0000                  | 2.898                               |         |
| 28-Aug-03        | 485.10                 | 31.761                            | -1.144                                | 210                   | 0.5183             | 1400                    | 3.4551               |                            | 0.0000                  | 2.830                               |         |
| 29-Aug-03        | 484.00                 | 30.260                            | -1.502                                | 220                   | 0.5429             | 1400                    | 3.4551               |                            | 0.0000                  | 2.496                               |         |
| 30-Aug-03        | 482.90                 | 28.758                            | -1.502                                | 220                   | 0.5429             | 1400                    | 3.4551               |                            | 0.0000                  | 2.496                               |         |
| 31-Aug-03        | 481.30                 | 26.734                            | -2.024                                | 220                   | 0.5429             | 1400                    | 3.4551               |                            | 0.0000                  | 1.974                               |         |
| <b>01-Sep-03</b> | 480.60                 | 25.891                            | -0.843                                | 220                   | 0.5429             | 1400                    | 3.4551               |                            | 0.0000                  | 3.155                               |         |
| 02-Sep-03        | 479.70                 | 24.686                            | -1.205                                | 220                   | 0.5429             | 1400                    | 3.4551               |                            | 0.0000                  | 2.793                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-9.294</b>                         |                       | <b>3.751</b>       |                         | <b>24.185</b>        |                            | <b>0.000</b>            | <b>18.642</b>                       |         |
| 03-Sep-03        | 478.70                 | 23.647                            | -1.040                                | 220                   | 0.5429             | 1400                    | 3.4551               |                            | 0.0000                  | 2.958                               |         |
| 04-Sep-03        | 477.00                 | 21.852                            | -1.795                                | 225                   | 0.5553             | 1400                    | 3.4551               |                            | 0.0000                  | 2.215                               |         |
| 05-Sep-03        | 475.50                 | 20.290                            | -1.562                                | 225                   | <b>0.5553</b>      | 1400                    | 3.4551               |                            | 0.0000                  | 2.448                               |         |
| 06-Sep-03        | 473.90                 | 18.774                            | -1.515                                | 225                   | 0.5553             | 1400                    | 3.4551               |                            | 0.0000                  | 2.495                               |         |
| 07-Sep-03        | 472.70                 | 17.638                            | -1.136                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 1.393                               |         |
| 08-Sep-03        | 471.70                 | 16.815                            | -0.823                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 1.706                               |         |
| 09-Sep-03        | 470.80                 | 16.102                            | -0.713                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 1.817                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-8.585</b>                         |                       | <b>3.875</b>       |                         | <b>19.743</b>        |                            | <b>0.000</b>            | <b>15.033</b>                       |         |
| 10-Sep-03        | 470.60                 | 15.943                            | -0.158                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 2.371                               |         |
| 11-Sep-03        | 469.80                 | 15.309                            | -0.634                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 1.896                               |         |
| 12-Sep-03        | 468.90                 | 14.631                            | -0.679                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 1.851                               |         |
| 13-Sep-03        | 468.00                 | 14.021                            | -0.610                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 1.920                               |         |
| 14-Sep-03        | 467.60                 | 13.750                            | -0.271                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 2.259                               |         |
| 15-Sep-03        | 466.60                 | 13.072                            | -0.678                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 1.852                               |         |
| 16-Sep-03        | 465.60                 | 12.426                            | -0.647                                | 225                   | 0.5553             | 1400                    | 3.4551               |                            | 0.0000                  | 3.364                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-3.676</b>                         |                       | <b>3.887</b>       |                         | <b>15.301</b>        |                            | <b>0.000</b>            | <b>15.512</b>                       |         |
| 17-Sep-03        | 463.00                 | 10.933                            | -1.493                                | 225                   | 0.5553             | 1400                    | 3.4551               |                            | 0.0000                  | 2.517                               |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 18-Sep-03        | 460.40                 | 9.642                             | -1.291                                | 225                   | 0.5553             | 1400                    | 3.4551               |                            | 0.0000                  | 2.720                               |         |
| 19-Sep-03        | 457.20                 | 8.241                             | -1.401                                | 225                   | 0.5553             | 1400                    | 3.4551               |                            | 0.0000                  | 2.610                               |         |
| 20-Sep-03        | 454.40                 | 7.220                             | -1.021                                | 225                   | 0.5553             | 1400                    | 3.4551               |                            | 0.0000                  | 2.989                               |         |
| 21-Sep-03        | 451.20                 | 6.247                             | -0.972                                | 225                   | 0.5553             | 1400                    | 3.4551               |                            | 0.0000                  | 3.038                               |         |
| 22-Sep-03        | 449.00                 | 5.656                             | -0.591                                | 225                   | 0.5553             | 1400                    | 3.4551               |                            | 0.0000                  | 3.419                               |         |
| 23-Sep-03        | 446.00                 | 4.915                             | -0.741                                | 225                   | 0.5553             | 1400                    | 3.4551               |                            | 0.0000                  | 3.269                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-7.511</b>                         |                       | <b>3.887</b>       |                         | <b>24.185</b>        |                            | <b>0.000</b>            | <b>20.561</b>                       |         |
| 24-Sep-03        | 442.70                 | 4.110                             | -0.804                                | 225                   | 0.5553             | 1400                    | 3.4551               |                            | 0.0000                  | 3.206                               |         |
| 25-Sep-03        | 452.60                 | 6.632                             | 2.522                                 | 225                   | 0.5553             | 1400                    | 3.4551               |                            | 0.0000                  | 6.532                               |         |
| 26-Sep-03        | 454.70                 | 7.320                             | 0.687                                 | 225                   | 0.5553             | 1400                    | 3.4551               |                            | 0.0000                  | 4.698                               |         |
| 27-Sep-03        | 454.70                 | 7.320                             | 0.000                                 | 225                   | 0.5553             | 1400                    | 3.4551               |                            | 0.0000                  | 4.010                               |         |
| 28-Sep-03        | 455.00                 | 7.419                             | 0.100                                 | 225                   | 0.5553             | 1400                    | 3.4551               |                            | 0.0000                  | 4.110                               |         |
| 29-Sep-03        | 459.60                 | 9.256                             | 1.837                                 | 225                   | 0.5553             | 1400                    | 3.4551               |                            | 0.0000                  | 5.847                               |         |
| 30-Sep-03        | 460.00                 | 9.449                             | 0.193                                 | 225                   | 0.5553             | 1400                    | 3.4551               |                            | 0.0000                  | 4.203                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>4.534</b>                          |                       | <b>3.887</b>       |                         | <b>24.185</b>        |                            | <b>0.000</b>            | <b>32.607</b>                       |         |
| <b>01-Oct-03</b> | 459.50                 | 9.208                             | -0.241                                | 225                   | 0.5553             | 1400                    | 3.4551               |                            | 0.0000                  | 3.769                               |         |
| 02-Oct-03        | 461.00                 | 9.931                             | 0.723                                 | 225                   | 0.5553             | 1400                    | 3.4551               |                            | 0.0000                  | 4.734                               |         |
| 03-Oct-03        | 461.00                 | 9.931                             | 0.000                                 | 225                   | 0.5553             | 1400                    | 3.4551               |                            | 0.0000                  | 4.010                               |         |
| 04-Oct-03        | 463.00                 | 10.933                            | 1.001                                 | 225                   | 0.5553             | 1400                    | 3.4551               |                            | 0.0000                  | 5.012                               |         |
| 05-Oct-03        | 463.00                 | 10.933                            | 0.000                                 | 225                   | 0.5553             | 1400                    | 3.4551               |                            | 0.0000                  | 4.010                               |         |
| 06-Oct-03        | 464.00                 | 11.450                            | 0.517                                 | 225                   | 0.5553             | 1400                    | 3.4551               |                            | 0.0000                  | 4.527                               |         |
| 07-Oct-03        | 464.00                 | 11.450                            | 0.000                                 | 225                   | 0.5553             | 1400                    | 3.4551               |                            | 0.0000                  | 4.010                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>2.001</b>                          |                       | <b>3.887</b>       |                         | <b>24.185</b>        |                            | <b>0.000</b>            | <b>30.073</b>                       |         |
| 08-Oct-03        | 463.40                 | 11.162                            | -0.287                                | 175                   | 0.4319             | 800                     | 1.9743               |                            | 0.0000                  | 2.119                               |         |
| 09-Oct-03        | 477.50                 | 22.380                            | 11.217                                | 175                   | 0.4319             | 800                     | 1.9743               |                            | 0.0000                  | 13.623                              |         |
| 10-Oct-03        | 494.50                 | 47.731                            | 25.351                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 25.351                              |         |
| 11-Oct-03        | 497.00                 | 52.900                            | 5.169                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 5.169                               |         |
| 12-Oct-03        | 498.30                 | 55.656                            | 2.756                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.756                               |         |
| 13-Oct-03        | 499.20                 | 59.386                            | 3.730                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 3.730                               |         |
| 14-Oct-03        | 499.80                 | 62.844                            | 3.458                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 3.828                               |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b>     |                        |                                   | <b>51.395</b>                         |                       | <b>1.234</b>       |                         | <b>3.949</b>         |                            | <b>0.000</b>            | <b>56.577</b>                       |         |
| 15-Oct-03        | 500.10                 | 63.997                            | 1.153                                 | 150                   | 0.3702             |                         | 0.0000               | 64.3                       | 0.1587                  | 1.682                               |         |
| 16-Oct-03        | 500.20                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 143                        | 0.3529                  | 0.723                               |         |
| 17-Oct-03        | 500.20                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 143                        | 0.3529                  | 0.723                               |         |
| 18-Oct-03        | 500.20                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 143                        | 0.3529                  | 0.846                               |         |
| 19-Oct-03        | 500.80                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 1388                       | 3.4254                  | 3.919                               |         |
| 20-Oct-03        | 500.50                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 694                        | 1.7127                  | 2.206                               |         |
| 21-Oct-03        | 500.30                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 308                        | 0.7601                  | 1.254                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>1.153</b>                          |                       | <b>3.085</b>       |                         | <b>0.000</b>         |                            | <b>7.116</b>            | <b>11.353</b>                       |         |
| 22-Oct-03        | 500.10                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.652                               |         |
| 23-Oct-03        | 499.90                 | 62.844                            | -1.153                                | 225                   | 0.5553             | 700                     | 1.7275               |                            | 0.0000                  | 1.130                               |         |
| 24-Oct-03        | 499.70                 | 62.268                            | -0.576                                | 225                   | 0.5553             | 700                     | 1.7275               |                            | 0.0000                  | 1.706                               |         |
| 25-Oct-03        | 500.90                 | 63.997                            | 1.729                                 | 100                   | 0.2468             |                         | 0.0000               | 1646                       | 4.0622                  | 6.038                               |         |
| 26-Oct-03        | 500.90                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 1646                       | 4.0622                  | 4.309                               |         |
| 27-Oct-03        | 500.90                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 1646                       | 4.0622                  | 4.062                               |         |
| 28-Oct-03        | 501.10                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 2216                       | 5.4689                  | 5.469                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.000</b>                          |                       | <b>2.098</b>       |                         | <b>3.455</b>         |                            | <b>17.814</b>           | <b>23.367</b>                       |         |
| 29-Oct-03        | 500.90                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 1646                       | 4.0622                  | 4.062                               |         |
| 30-Oct-03        | 500.70                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 1137                       | 2.8060                  | 2.806                               |         |
| 31-Oct-03        | 500.50                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 694                        | 1.7127                  | 1.713                               |         |
| <b>01-Nov-03</b> | 500.50                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 694                        | 1.7127                  | 1.713                               |         |
| 02-Nov-03        | 500.30                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 308                        | 0.7601                  | 0.760                               |         |
| 03-Nov-03        | 500.30                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 308                        | 0.7601                  | 0.760                               |         |
| 04-Nov-03        | 500.20                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>12.241</b>           | <b>12.241</b>                       |         |
| 05-Nov-03        | 500.20                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 06-Nov-03        | 500.20                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 07-Nov-03        | 500.20                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 08-Nov-03        | 500.20                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 09-Nov-03        | 500.20                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 10-Nov-03        | 500.20                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 11-Nov-03        | 500.20                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>2.989</b>            | <b>2.989</b>                        |         |
| 12-Nov-03        | 500.20                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 13-Nov-03        | 500.20                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 14-Nov-03        | 500.20                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 15-Nov-03        | 500.20                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 16-Nov-03        | 500.20                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 17-Nov-03        | 500.20                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 18-Nov-03        | 500.20                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>2.989</b>            | <b>2.989</b>                        |         |
| 19-Nov-03        | 500.20                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 20-Nov-03        | 500.20                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 21-Nov-03        | 500.10                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 64.30                      | 0.1587                  | 0.159                               |         |
| 22-Nov-03        | 500.10                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 64.30                      | 0.1587                  | 0.159                               |         |
| 23-Nov-03        | 500.10                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 64.30                      | 0.1587                  | 0.159                               |         |
| 24-Nov-03        | 500.10                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 64.30                      | 0.1587                  | 0.159                               |         |
| 25-Nov-03        | 500.10                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 64.30                      | 0.1587                  | 0.159                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>1.647</b>            | <b>1.647</b>                        |         |
| 26-Nov-03        | 500.10                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 64.30                      | 0.1587                  | 0.159                               |         |
| 27-Nov-03        | 500.10                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 64.30                      | 0.1587                  | 0.159                               |         |
| 28-Nov-03        | 500.10                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 64.30                      | 0.1587                  | 0.159                               |         |
| 29-Nov-03        | 500.10                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 64.30                      | 0.1587                  | 0.159                               |         |
| 30-Nov-03        | 500.10                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 64.30                      | 0.1587                  | 0.159                               |         |
| <b>01-Dec-03</b> | 500.10                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 02-Dec-03        | 500.10                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>1.111</b>            | <b>1.111</b>                        |         |
| 03-Dec-03        | 500.10                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 04-Dec-03        | 500.10                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 05-Dec-03        | 500.10                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |

| Date         | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 06-Dec-03    | 500.10                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 07-Dec-03    | 500.10                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 08-Dec-03    | 500.10                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 09-Dec-03    | 500.10                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>1.111</b>            | <b>1.111</b>                        |         |
| 10-Dec-03    | 500.10                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 11-Dec-03    | 500.10                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 12-Dec-03    | 500.10                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 13-Dec-03    | 500.10                 | 63.997                            | 0.000                                 | 0                     | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 14-Dec-03    | 500.00                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 15-Dec-03    | 499.90                 | 62.844                            | -1.153                                | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.000                               |         |
| 16-Dec-03    | 499.80                 | 62.844                            | 0.000                                 | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.740                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-1.153</b>                         |                       | <b>0.740</b>       |                         | <b>0.987</b>         |                            | <b>0.635</b>            | <b>1.622</b>                        |         |
| 17-Dec-03    | 499.60                 | 61.691                            | -1.153                                | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.000                               |         |
| 18-Dec-03    | 499.40                 | 60.539                            | -1.153                                | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.000                               |         |
| 19-Dec-03    | 499.20                 | 59.386                            | -1.153                                | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.000                               |         |
| 20-Dec-03    | 499.00                 | 58.233                            | -1.153                                | 150                   | 0.3702             | 200                     | 0.4936               |                            | 0.0000                  | 0.000                               |         |
| 21-Dec-03    | 498.80                 | 56.504                            | -1.729                                | 150                   | 0.3702             | 200                     | 0.4936               |                            | 0.0000                  | 0.000                               |         |
| 22-Dec-03    | 498.50                 | 56.080                            | -0.424                                | 150                   | 0.3702             | 200                     | 0.4936               |                            | 0.0000                  | 0.440                               |         |
| 23-Dec-03    | 498.20                 | 55.444                            | -0.636                                | 200                   | 0.4936             | 150                     | 0.3702               |                            | 0.0000                  | 0.228                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-7.400</b>                         |                       | <b>2.345</b>       |                         | <b>3.332</b>         |                            | <b>0.000</b>            | <b>0.667</b>                        |         |
| 24-Dec-03    | 498.00                 | 55.020                            | -0.424                                | 200                   | 0.4936             | 150                     | 0.3702               |                            | 0.0000                  | 0.440                               |         |
| 25-Dec-03    | 497.70                 | 54.384                            | -0.636                                | 200                   | 0.4936             | 150                     | 0.3702               |                            | 0.0000                  | 0.228                               |         |
| 26-Dec-03    | 497.40                 | 53.748                            | -0.636                                | 200                   | 0.4936             | 150                     | 0.3702               |                            | 0.0000                  | 0.228                               |         |
| 27-Dec-03    | 497.00                 | 52.900                            | -0.848                                | 200                   | 0.4936             | 150                     | 0.3702               |                            | 0.0000                  | 0.016                               |         |
| 28-Dec-03    | 496.80                 | 52.476                            | -0.424                                | 200                   | 0.4936             | 150                     | 0.3702               |                            | 0.0000                  | 0.440                               |         |
| 29-Dec-03    | 496.70                 | 52.264                            | -0.212                                | 200                   | 0.4936             | 150                     | 0.3702               |                            | 0.0000                  | 0.652                               |         |
| 30-Dec-03    | 496.60                 | 52.052                            | -0.212                                | 100                   | 0.2468             | 150                     | 0.3702               |                            | 0.0000                  | 0.405                               |         |
| 31-Dec-03    | 496.50                 | 51.628                            | -0.424                                | 100                   | 0.2468             | 150                     | 0.3702               |                            | 0.0000                  | 0.193                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-3.816</b>                         |                       | <b>3.455</b>       |                         | <b>2.961</b>         |                            | <b>0.000</b>            | <b>2.600</b>                        |         |



| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 01-Jan-04    | 496.40                 | 51.628                            | 0.000                                 | 100                   | 0.2468             | 150                     | 0.3702               |                            | 0.0000                  | 0.617                               |         |
| 02-Jan-04    | 496.30                 | 51.416                            | -0.212                                | 100                   | 0.2468             | 150                     | 0.3702               |                            | 0.0000                  | 0.405                               |         |
| 03-Jan-04    | 496.20                 | 51.204                            | -0.212                                | 100                   | 0.2468             | 150                     | 0.3702               |                            | 0.0000                  | 0.405                               |         |
| 04-Jan-04    | 496.10                 | 50.992                            | -0.212                                | 100                   | 0.2468             | 150                     | 0.3702               |                            | 0.0000                  | 0.405                               |         |
| 05-Jan-04    | 496.00                 | 50.780                            | -0.212                                | 100                   | 0.2468             | 150                     | 0.3702               |                            | 0.0000                  | 0.405                               |         |
| 06-Jan-04    | 495.90                 | 50.568                            | -0.212                                | 100                   | 0.2468             | 150                     | 0.3702               |                            | 0.0000                  | 0.405                               |         |
| 07-Jan-04    | 495.70                 | 50.144                            | -0.424                                | 150                   | 0.3702             | 150                     | 0.3702               |                            | 0.0000                  | 0.316                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-1.484</b>                         |                       | <b>1.851</b>       |                         | <b>2.591</b>         |                            | <b>0.000</b>            | <b>2.958</b>                        |         |
| 08-Jan-04    | 495.60                 | 49.932                            | -0.212                                | 150                   | 0.3702             | 150                     | 0.3702               |                            | 0.0000                  | 0.528                               |         |
| 09-Jan-04    | 495.30                 | 49.310                            | -0.621                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.489                               |         |
| 10-Jan-04    | 495.00                 | 48.718                            | -0.592                                | 75                    | 0.1851             | 500                     | 1.2339               |                            | 0.0000                  | 0.827                               |         |
| 11-Jan-04    | 494.50                 | 47.731                            | -0.987                                | 75                    | 0.1851             | 500                     | 1.2339               |                            | 0.0000                  | 0.432                               |         |
| 12-Jan-04    | 494.00                 | 46.744                            | -0.987                                | 75                    | 0.1851             | 500                     | 1.2339               |                            | 0.0000                  | 0.432                               |         |
| 13-Jan-04    | 493.40                 | 45.559                            | -1.184                                | 75                    | 0.1851             | 500                     | 1.2339               |                            | 0.0000                  | 0.235                               |         |
| 14-Jan-04    | 492.90                 | 44.572                            | -0.987                                | 75                    | 0.1851             | 500                     | 1.2339               |                            | 0.0000                  | 0.432                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-5.571</b>                         |                       | <b>1.666</b>       |                         | <b>7.280</b>         |                            | <b>0.000</b>            | <b>3.375</b>                        |         |
| 15-Jan-04    | 492.50                 | 43.783                            | -0.790                                | 75                    | 0.1851             | 500                     | 1.2339               |                            | 0.0000                  | 0.629                               |         |
| 16-Jan-04    | 492.00                 | 42.675                            | -1.108                                | 75                    | 0.1851             | 500                     | 1.2339               |                            | 0.0000                  | 0.311                               |         |
| 17-Jan-04    | 491.60                 | 42.159                            | -0.516                                | 75                    | 0.1851             | 500                     | 1.2339               |                            | 0.0000                  | 0.903                               |         |
| 18-Jan-04    | 491.20                 | 41.471                            | -0.688                                | 75                    | 0.1851             | 500                     | 1.2339               |                            | 0.0000                  | 0.731                               |         |
| 19-Jan-04    | 490.60                 | 40.439                            | -1.032                                | 75                    | 0.1851             | 500                     | 1.2339               |                            | 0.0000                  | 0.387                               |         |
| 20-Jan-04    | 489.60                 | 38.719                            | -1.720                                | 75                    | 0.1851             | 500                     | 1.2339               |                            | 0.0000                  | 0.000                               |         |
| 21-Jan-04    | 488.90                 | 37.515                            | -1.204                                | 75                    | 0.1851             | 500                     | 1.2339               |                            | 0.0000                  | 0.215                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-7.057</b>                         |                       | <b>1.296</b>       |                         | <b>8.638</b>         |                            | <b>0.000</b>            | <b>3.177</b>                        |         |
| 22-Jan-04    | 488.50                 | 36.900                            | -0.615                                | 75                    | 0.1851             | 500                     | 1.2339               |                            | 0.0000                  | 0.804                               |         |
| 23-Jan-04    | 488.10                 | 36.286                            | -0.615                                | 75                    | 0.1851             | 500                     | 1.2339               |                            | 0.0000                  | 0.804                               |         |
| 24-Jan-04    | 487.70                 | 35.671                            | -0.615                                | 75                    | 0.1851             | 200                     | 0.4936               |                            | 0.0000                  | 0.064                               |         |
| 25-Jan-04    | 487.40                 | 35.210                            | -0.461                                | 75                    | 0.1851             | 200                     | 0.4936               |                            | 0.0000                  | 0.218                               |         |
| 26-Jan-04    | 487.50                 | 35.210                            | 0.000                                 | 75                    | 0.1851             |                         | 0.0000               |                            | 0.0000                  | 0.185                               |         |
| 27-Jan-04    | 487.60                 | 35.517                            | 0.307                                 | 75                    | 0.1851             |                         | 0.0000               |                            | 0.0000                  | 0.492                               |         |

| Date             | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 28-Jan-04        | 487.60                 | 35.517                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-1.998</b>                         |                       | <b>1.357</b>       |                         | <b>3.455</b>         |                            | <b>0.000</b>            | <b>2.815</b>                        |         |
| 29-Jan-04        | 487.50                 | 35.210                            | -0.307                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30-Jan-04        | 487.40                 | 35.210                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 31-Jan-04        | 487.20                 | 34.903                            | -0.307                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>01-Feb-04</b> | 487.10                 | 34.749                            | -0.154                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.093                               |         |
| 02-Feb-04        | 486.90                 | 34.442                            | -0.307                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 03-Feb-04        | 486.70                 | 34.134                            | -0.307                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.063                               |         |
| 04-Feb-04        | 486.50                 | 33.827                            | -0.307                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.063                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-1.690</b>                         |                       | <b>1.728</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.466</b>                        |         |
| 05-Feb-04        | 486.20                 | 33.366                            | -0.461                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 06-Feb-04        | 486.00                 | 33.059                            | -0.307                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.063                               |         |
| 07-Feb-04        | 485.60                 | 32.444                            | -0.615                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 08-Feb-04        | 485.20                 | 31.898                            | -0.546                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 09-Feb-04        | 484.90                 | 31.488                            | -0.410                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.022                               |         |
| 10-Feb-04        | 484.70                 | 31.215                            | -0.273                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.159                               |         |
| 11-Feb-04        | 484.50                 | 30.942                            | -0.273                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-2.885</b>                         |                       | <b>2.468</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.244</b>                        |         |
| 12-Feb-04        | 484.50                 | 30.942                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13-Feb-04        | 484.40                 | 30.806                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14-Feb-04        | 484.40                 | 30.806                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15-Feb-04        | 484.30                 | 30.669                            | -0.137                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16-Feb-04        | 484.30                 | 30.669                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17-Feb-04        | 484.10                 | 30.396                            | -0.273                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.467                               |         |
| 18-Feb-04        | 483.80                 | 29.987                            | -0.410                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.331                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.956</b>                         |                       | <b>0.000</b>       |                         | <b>1.481</b>         |                            | <b>0.000</b>            | <b>0.798</b>                        |         |
| 19-Feb-04        | 483.60                 | 29.714                            | -0.273                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.467                               |         |
| 20-Feb-04        | 483.30                 | 29.304                            | -0.410                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.331                               |         |
| 21-Feb-04        | 483.00                 | 28.895                            | -0.410                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.331                               |         |
| 22-Feb-04        | 482.80                 | 28.622                            | -0.273                                |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.097                               |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 23-Feb-04        | 482.50                 | 28.212                            | -0.410                                |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.000                               |         |
| 24-Feb-04        | 482.30                 | 27.939                            | -0.273                                |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.097                               |         |
| 25-Feb-04        | 482.00                 | 27.457                            | -0.482                                |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-2.530</b>                         |                       | <b>0.000</b>       |                         | <b>3.702</b>         |                            | <b>0.000</b>            | <b>1.323</b>                        |         |
| 26-Feb-04        | 481.80                 | 27.337                            | -0.120                                |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.250                               |         |
| 27-Feb-04        | 481.60                 | 27.096                            | -0.241                                |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.129                               |         |
| 28-Feb-04        | 481.30                 | 26.734                            | -0.361                                |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.009                               |         |
| 29-Feb-04        | 481.10                 | 26.493                            | -0.241                                |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.129                               |         |
| <b>01-Mar-04</b> | 480.80                 | 26.012                            | -0.482                                |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.000                               |         |
| 02-Mar-04        | 480.50                 | 25.771                            | -0.241                                |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.129                               |         |
| 03-Mar-04        | 480.20                 | 25.409                            | -0.361                                | 100                   | 0.2468             | 150                     | 0.3702               |                            | 0.0000                  | 0.256                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-2.048</b>                         |                       | <b>0.247</b>       |                         | <b>2.591</b>         |                            | <b>0.000</b>            | <b>0.902</b>                        |         |
| 04-Mar-04        | 479.80                 | 24.927                            | -0.482                                | 150                   | 0.3702             | 150                     | 0.3702               |                            | 0.0000                  | 0.258                               |         |
| 05-Mar-04        | 479.50                 | 24.566                            | -0.361                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.749                               |         |
| 06-Mar-04        | 479.00                 | 23.963                            | -0.602                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.508                               |         |
| 07-Mar-04        | 478.50                 | 23.435                            | -0.528                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.583                               |         |
| 08-Mar-04        | 477.90                 | 22.802                            | -0.634                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.477                               |         |
| 09-Mar-04        | 477.20                 | 22.063                            | -0.739                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.371                               |         |
| 10-Mar-04        | 476.60                 | 21.429                            | -0.634                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.477                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-3.980</b>                         |                       | <b>2.591</b>       |                         | <b>4.812</b>         |                            | <b>0.000</b>            | <b>3.424</b>                        |         |
| 11-Mar-04        | 476.30                 | 21.007                            | -0.422                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.318                               |         |
| 12-Mar-04        | 476.00                 | 20.796                            | -0.211                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.529                               |         |
| 13-Mar-04        | 475.80                 | 20.585                            | -0.211                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.529                               |         |
| 14-Mar-04        | 475.50                 | 20.290                            | -0.295                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.445                               |         |
| 15-Mar-04        | 475.20                 | 19.911                            | -0.379                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.362                               |         |
| 16-Mar-04        | 474.90                 | 19.721                            | -0.189                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.551                               |         |
| 17-Mar-04        | 474.70                 | 19.532                            | -0.189                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.551                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-1.897</b>                         |                       | <b>0.000</b>       |                         | <b>5.183</b>         |                            | <b>0.000</b>            | <b>3.285</b>                        |         |
| 18-Mar-04        | 474.40                 | 19.248                            | -0.284                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.456                               |         |
| 19-Mar-04        | 474.10                 | 18.869                            | -0.379                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.362                               |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 20-Mar-04        | 473.80                 | 18.680                            | -0.189                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.551                               |         |
| 21-Mar-04        | 473.40                 | 18.301                            | -0.379                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.362                               |         |
| 22-Mar-04        | 473.10                 | 18.017                            | -0.284                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.456                               |         |
| 23-Mar-04        | 472.70                 | 17.638                            | -0.379                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.362                               |         |
| 24-Mar-04        | 472.20                 | 17.211                            | -0.427                                |                       | 0.0000             | 300                     | 0.7404               |                            | 0.0000                  | 0.313                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-2.321</b>                         |                       | <b>0.000</b>       |                         | <b>5.183</b>         |                            | <b>0.000</b>            | <b>2.861</b>                        |         |
| 25-Mar-04        | 472.20                 | 17.211                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26-Mar-04        | 472.20                 | 17.211                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27-Mar-04        | 472.10                 | 17.132                            | -0.079                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28-Mar-04        | 472.10                 | 17.132                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29-Mar-04        | 472.10                 | 17.132                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30-Mar-04        | 472.00                 | 17.052                            | -0.079                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31-Mar-04        | 472.00                 | 17.052                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.158</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| <b>01-Apr-04</b> | 472.00                 | 17.052                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 02-Apr-04        | 472.00                 | 17.052                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 03-Apr-04        | 471.90                 | 16.894                            | -0.158                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 04-Apr-04        | 471.90                 | 16.894                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 05-Apr-04        | 471.90                 | 16.894                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 06-Apr-04        | 471.90                 | 16.894                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 07-Apr-04        | 472.00                 | 17.052                            | 0.158                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.158                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.158</b>                        |         |
| 08-Apr-04        | 472.00                 | 17.052                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 09-Apr-04        | 472.00                 | 17.052                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10-Apr-04        | 472.00                 | 17.052                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11-Apr-04        | 471.90                 | 16.894                            | -0.158                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12-Apr-04        | 471.90                 | 16.894                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13-Apr-04        | 471.90                 | 16.894                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14-Apr-04        | 471.90                 | 16.894                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.158</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 15-Apr-04        | 471.80                 | 16.894                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16-Apr-04        | 471.80                 | 16.894                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17-Apr-04        | 471.80                 | 16.894                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18-Apr-04        | 471.80                 | 16.894                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19-Apr-04        | 471.90                 | 16.894                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20-Apr-04        | 471.90                 | 16.894                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21-Apr-04        | 471.90                 | 16.894                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 22-Apr-04        | 472.00                 | 17.052                            | 0.158                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.158                               |         |
| 23-Apr-04        | 472.00                 | 17.052                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24-Apr-04        | 472.00                 | 17.052                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25-Apr-04        | 471.80                 | 16.894                            | -0.158                                |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.088                               |         |
| 26-Apr-04        | 471.60                 | 16.735                            | -0.158                                |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.088                               |         |
| 27-Apr-04        | 471.40                 | 16.577                            | -0.158                                |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.088                               |         |
| 28-Apr-04        | 471.20                 | 16.418                            | -0.158                                |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.088                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.475</b>                         |                       | <b>0.000</b>       |                         | <b>0.987</b>         |                            | <b>0.000</b>            | <b>0.512</b>                        |         |
| 29-Apr-04        | 471.00                 | 16.260                            | -0.158                                |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.212                               |         |
| 30-Apr-04        | 470.70                 | 15.943                            | -0.317                                |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.053                               |         |
| <b>01-May-04</b> | 470.50                 | 15.864                            | -0.079                                |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.291                               |         |
| 02-May-04        | 470.20                 | 15.626                            | -0.238                                |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.133                               |         |
| 03-May-04        | 470.00                 | 15.468                            | -0.158                                |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.212                               |         |
| 04-May-04        | 469.80                 | 15.309                            | -0.158                                |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.212                               |         |
| 05-May-04        | 469.60                 | 15.072                            | -0.238                                |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.133                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-1.347</b>                         |                       | <b>0.000</b>       |                         | <b>2.591</b>         |                            | <b>0.000</b>            | <b>1.244</b>                        |         |
| 06-May-04        | 469.60                 | 15.072                            | 0.000                                 |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.370                               |         |
| 07-May-04        | 469.40                 | 14.992                            | -0.079                                |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.291                               |         |
| 08-May-04        | 469.20                 | 14.834                            | -0.158                                |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.212                               |         |
| 09-May-04        | 469.00                 | 14.698                            | -0.136                                |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.235                               |         |
| 10-May-04        | 468.70                 | 14.495                            | -0.203                                |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.167                               |         |
| 11-May-04        | 468.50                 | 14.292                            | -0.203                                |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.167                               |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 12-May-04        | 468.20                 | 14.156                            | -0.136                                |                       | 0.0000             | 150                     | 0.3702               |                            | 0.0000                  | 0.235                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.915</b>                         |                       | <b>0.000</b>       |                         | <b>2.591</b>         |                            | <b>0.000</b>            | <b>1.676</b>                        |         |
| 13-May-04        | 468.00                 | 14.021                            | -0.136                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14-May-04        | 468.00                 | 14.021                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15-May-04        | 468.00                 | 14.021                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16-May-04        | 468.00                 | 14.021                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17-May-04        | 468.00                 | 14.021                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18-May-04        | 467.90                 | 13.953                            | -0.068                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19-May-04        | 467.90                 | 13.953                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.203</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 20-May-04        | 467.80                 | 13.885                            | -0.068                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21-May-04        | 467.70                 | 13.818                            | -0.068                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22-May-04        | 467.60                 | 13.750                            | -0.068                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23-May-04        | 467.50                 | 13.682                            | -0.068                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24-May-04        | 467.40                 | 13.547                            | -0.136                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25-May-04        | 466.20                 | 12.801                            | -0.745                                |                       | 0.0000             | 400                     | 0.9872               |                            | 0.0000                  | 0.242                               |         |
| 26-May-04        | 465.50                 | 12.368                            | -0.433                                |                       | 0.0000             | 400                     | 0.9872               |                            | 0.0000                  | 0.554                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-1.585</b>                         |                       | <b>0.000</b>       |                         | <b>1.974</b>         |                            | <b>0.000</b>            | <b>0.796</b>                        |         |
| 27-May-04        | 465.00                 | 12.081                            | -0.287                                |                       | 0.0000             | 400                     | 0.9872               |                            | 0.0000                  | 0.700                               |         |
| 28-May-04        | 464.00                 | 11.450                            | -0.632                                |                       | 0.0000             | 400                     | 0.9872               |                            | 0.0000                  | 0.356                               |         |
| 29-May-04        | 463.00                 | 10.933                            | -0.517                                |                       | 0.0000             | 400                     | 0.9872               |                            | 0.0000                  | 0.470                               |         |
| 30-May-04        | 462.00                 | 10.414                            | -0.519                                |                       | 0.0000             | 400                     | 0.9872               |                            | 0.0000                  | 0.468                               |         |
| 31-May-04        | 460.00                 | 9.449                             | -0.965                                |                       | 0.0000             | 400                     | 0.9872               |                            | 0.0000                  | 0.023                               |         |
| <b>01-Jun-04</b> | 458.20                 | 8.656                             | -0.793                                |                       | 0.0000             | 400                     | 0.9872               |                            | 0.0000                  | 0.194                               |         |
| 02-Jun-04        | 456.40                 | 7.868                             | -0.787                                |                       | 0.0000             | 400                     | 0.9872               |                            | 0.0000                  | 0.200                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-4.500</b>                         |                       | <b>0.000</b>       |                         | <b>6.910</b>         |                            | <b>0.000</b>            | <b>2.410</b>                        |         |
| 03-Jun-04        | 454.10                 | 7.087                             | -0.782                                |                       | 0.0000             | 400                     | 0.9872               |                            | 0.0000                  | 0.206                               |         |
| 04-Jun-04        | 452.30                 | 6.550                             | -0.537                                |                       | 0.0000             | 400                     | 0.9872               |                            | 0.0000                  | 0.450                               |         |
| 05-Jun-04        | 450.10                 | 5.945                             | -0.605                                |                       | 0.0000             | 400                     | 0.9872               |                            | 0.0000                  | 0.382                               |         |
| 06-Jun-04        | 448.00                 | 5.409                             | -0.536                                |                       | 0.0000             | 400                     | 0.9872               |                            | 0.0000                  | 0.451                               |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 07-Jun-04        | 446.10                 | 4.939                             | -0.470                                |                       | 0.0000             | 400                     | 0.9872               |                            | 0.0000                  | 0.517                               |         |
| 08-Jun-04        | 443.90                 | 4.403                             | -0.536                                |                       | 0.0000             | 400                     | 0.9872               |                            | 0.0000                  | 0.451                               |         |
| 09-Jun-04        | 441.70                 | 3.863                             | -0.540                                |                       | 0.0000             | 400                     | 0.9872               |                            | 0.0000                  | 0.447                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-4.005</b>                         |                       | <b>0.000</b>       |                         | <b>6.910</b>         |                            | <b>0.000</b>            | <b>2.905</b>                        |         |
| 10-Jun-04        | 438.50                 | 3.063                             | -0.801                                |                       | 0.0000             | 400                     | 0.9872               |                            | 0.0000                  | 0.187                               |         |
| 11-Jun-04        | 435.30                 | 2.336                             | -0.726                                |                       | 0.0000             | 400                     | 0.9872               |                            | 0.0000                  | 0.261                               |         |
| 12-Jun-04        | 433.00                 | 1.804                             | -0.533                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13-Jun-04        | 433.00                 | 1.804                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14-Jun-04        | 435.50                 | 2.383                             | 0.579                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.579                               |         |
| 15-Jun-04        | 440.20                 | 3.493                             | 1.110                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.110                               |         |
| 16-Jun-04        | 441.50                 | 3.814                             | 0.321                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.321                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.049</b>                         |                       | <b>0.000</b>       |                         | <b>1.974</b>         |                            | <b>0.000</b>            | <b>2.458</b>                        |         |
| 17-Jun-04        | 449.60                 | 5.807                             | 1.993                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.993                               |         |
| 18-Jun-04        | 451.60                 | 6.357                             | 0.550                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.550                               |         |
| 19-Jun-04        | 459.30                 | 9.111                             | 2.754                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.754                               |         |
| 20-Jun-04        | 463.20                 | 11.048                            | 1.936                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.936                               |         |
| 21-Jun-04        | 505.33                 | 63.997                            | 52.949                                |                       | 0.0000             |                         | 0.0000               | 5050                       | 12.4629                 | 65.412                              |         |
| 22-Jun-04        | 505.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 22972                      | 56.6925                 | 56.693                              |         |
| 23-Jun-04        | 501.80                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 5050                       | 12.4629                 | 12.463                              |         |
| <b>TOTAL</b>     |                        |                                   | <b>60.183</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>81.618</b>           | <b>141.801</b>                      |         |
| 24-Jun-04        | 501.02                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1927                       | 4.7556                  | 4.756                               |         |
| 25-Jun-04        | 500.33                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 906                        | 2.2359                  | 2.236                               |         |
| 26-Jun-04        | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498                        | 1.2290                  | 1.229                               |         |
| 27-Jun-04        | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 308                        | 0.7601                  | 0.760                               |         |
| 28-Jun-04        | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 29-Jun-04        | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| 30-Jun-04        | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.3                       | 0.1587                  | 0.159                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>9.457</b>            | <b>9.457</b>                        |         |
| <b>01-Jul-04</b> | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.30                      | 0.1587                  | 0.159                               |         |
| 02-Jul-04        | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.30                      | 0.1587                  | 0.159                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 03-Jul-04    | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.30                      | 0.1587                  | 0.159                               |         |
| 04-Jul-04    | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.30                      | 0.1587                  | 0.159                               |         |
| 05-Jul-04    | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 173.00                     | 0.4269                  | 0.427                               |         |
| 06-Jul-04    | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 173.00                     | 0.4269                  | 0.427                               |         |
| 07-Jul-04    | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 173.00                     | 0.4269                  | 0.427                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>1.916</b>            | <b>1.916</b>                        |         |
| 08-Jul-04    | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 173.00                     | 0.4269                  | 0.427                               |         |
| 09-Jul-04    | 500.80                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1380.00                    | 3.4057                  | 3.406                               |         |
| 10-Jul-04    | 500.60                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 906.00                     | 2.2359                  | 2.236                               |         |
| 11-Jul-04    | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 308.00                     | 0.7601                  | 0.760                               |         |
| 12-Jul-04    | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 173.00                     | 0.4269                  | 0.427                               |         |
| 13-Jul-04    | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 173.00                     | 0.4269                  | 0.427                               |         |
| 14-Jul-04    | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 173.00                     | 0.4269                  | 0.427                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>8.110</b>            | <b>8.110</b>                        |         |
| 15-Jul-04    | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 173.00                     | 0.4269                  | 0.427                               |         |
| 16-Jul-04    | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 64.30                      | 0.1587                  | 0.159                               |         |
| 17-Jul-04    | 500.70                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1137.00                    | 2.8060                  | 2.806                               |         |
| 18-Jul-04    | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498.00                     | 1.2290                  | 1.229                               |         |
| 19-Jul-04    | 501.00                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1927.00                    | 4.7556                  | 4.756                               |         |
| 20-Jul-04    | 500.60                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 906.00                     | 2.2359                  | 2.236                               |         |
| 21-Jul-04    | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 308.00                     | 0.7601                  | 0.760                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>12.372</b>           | <b>12.372</b>                       |         |
| 22-Jul-04    | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498.00                     | 1.2290                  | 1.229                               |         |
| 23-Jul-04    | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498.00                     | 1.2290                  | 1.229                               |         |
| 24-Jul-04    | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 308.00                     | 0.7601                  | 0.760                               |         |
| 25-Jul-04    | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 308.00                     | 0.7601                  | 0.760                               |         |
| 26-Jul-04    | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 173.00                     | 0.4269                  | 0.427                               |         |
| 27-Jul-04    | 500.10                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 64.30                      | 0.1587                  | 0.405                               |         |
| 28-Jul-04    | 500.00                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.247                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.494</b>         |                            | <b>4.564</b>            | <b>5.057</b>                        |         |



| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 29-Jul-04        | 499.90                 | 62.844                            | -1.153                                |                       | 0.0000             | 600                     | 1.4807               |                            | 0.0000                  | 0.328                               |         |
| 30-Jul-04        | 499.80                 | 62.844                            | 0.000                                 |                       | 0.0000             | 600                     | 1.4807               |                            | 0.0000                  | 1.481                               |         |
| 31-Jul-04        | 500.00                 | 63.997                            | 1.153                                 |                       | 0.0000             | 700                     | 1.7275               |                            | 0.0000                  | 2.880                               |         |
| <b>01-Aug-04</b> | 499.90                 | 62.844                            | -1.153                                |                       | 0.0000             | 1200                    | 2.9615               |                            | 0.0000                  | 1.809                               |         |
| 02-Aug-04        | 499.70                 | 62.268                            | -0.576                                | 100                   | 0.2468             | 1200                    | 2.9615               |                            | 0.0000                  | 2.632                               |         |
| 03-Aug-04        | 499.40                 | 60.539                            | -1.729                                | 100                   | 0.2468             | 1200                    | 2.9615               |                            | 0.0000                  | 1.479                               |         |
| 04-Aug-04        | 498.70                 | 56.504                            | -4.035                                | 175                   | 0.4319             | 1200                    | 2.9615               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-7.493</b>                         |                       | <b>0.925</b>       |                         | <b>16.535</b>        |                            | <b>0.000</b>            | <b>10.609</b>                       |         |
| 05-Aug-04        | 497.80                 | 54.596                            | -1.908                                | 175                   | 0.4319             | 1200                    | 2.9615               |                            | 0.0000                  | 1.485                               |         |
| 06-Aug-04        | 496.80                 | 52.476                            | -2.120                                | 175                   | 0.4319             | 1200                    | 2.9615               |                            | 0.0000                  | 1.273                               |         |
| 07-Aug-04        | 496.00                 | 50.780                            | -1.696                                | 210                   | 0.5183             | 1200                    | 2.9615               |                            | 0.0000                  | 1.784                               |         |
| 08-Aug-04        | 495.70                 | 50.144                            | -0.636                                | 210                   | 0.5183             | 1200                    | 2.9615               |                            | 0.0000                  | 2.844                               |         |
| 09-Aug-04        | 495.00                 | 48.718                            | -1.426                                | 210                   | 0.5183             | 1200                    | 2.9615               |                            | 0.0000                  | 2.054                               |         |
| 10-Aug-04        | 494.40                 | 47.534                            | -1.184                                | 210                   | 0.5183             | 1200                    | 2.9615               |                            | 0.0000                  | 2.295                               |         |
| 11-Aug-04        | 493.80                 | 46.349                            | -1.184                                | 210                   | 0.5183             | 1200                    | 2.9615               |                            | 0.0000                  | 2.295                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-10.155</b>                        |                       | <b>3.455</b>       |                         | <b>20.730</b>        |                            | <b>0.000</b>            | <b>14.030</b>                       |         |
| 12-Aug-04        | 493.50                 | 45.757                            | -0.592                                | 210                   | 0.5183             | 1200                    | 2.9615               |                            | 0.0000                  | 2.888                               |         |
| 13-Aug-04        | 493.00                 | 44.770                            | -0.987                                | 210                   | 0.5183             | 1200                    | 2.9615               |                            | 0.0000                  | 2.493                               |         |
| 14-Aug-04        | 492.00                 | 42.675                            | -2.095                                | 210                   | 0.5183             | 1200                    | 2.9615               |                            | 0.0000                  | 1.385                               |         |
| 15-Aug-04        | 491.40                 | 41.815                            | -0.860                                | 225                   | 0.5553             | 1200                    | 2.9615               |                            | 0.0000                  | 2.657                               |         |
| 16-Aug-04        | 490.10                 | 39.579                            | -2.236                                | 225                   | 0.5553             | 1200                    | 2.9615               |                            | 0.0000                  | 1.281                               |         |
| 17-Aug-04        | 489.00                 | 37.687                            | -1.892                                | 225                   | 0.5553             | 1200                    | 2.9615               |                            | 0.0000                  | 1.625                               |         |
| 18-Aug-04        | 487.90                 | 35.978                            | -1.709                                | 225                   | 0.5553             | 1200                    | 2.9615               |                            | 0.0000                  | 1.808                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-10.371</b>                        |                       | <b>3.776</b>       |                         | <b>20.730</b>        |                            | <b>0.000</b>            | <b>14.136</b>                       |         |
| 19-Aug-04        | 487.10                 | 34.749                            | -1.229                                | 225                   | 0.5553             | 1200                    | 2.9615               |                            | 0.0000                  | 2.287                               |         |
| 20-Aug-04        | 487.40                 | 35.210                            | 0.461                                 | 225                   | 0.5553             | 1200                    | 2.9615               |                            | 0.0000                  | 3.978                               |         |
| 21-Aug-04        | 486.80                 | 34.288                            | -0.922                                | 225                   | 0.5553             | 1200                    | 2.9615               |                            | 0.0000                  | 2.595                               |         |
| 22-Aug-04        | 486.20                 | 33.366                            | -0.922                                | 225                   | 0.5553             | 1200                    | 2.9615               |                            | 0.0000                  | 2.595                               |         |
| 23-Aug-04        | 485.30                 | 31.898                            | -1.468                                | 225                   | 0.5553             | 1200                    | 2.9615               |                            | 0.0000                  | 2.049                               |         |
| 24-Aug-04        | 484.60                 | 31.079                            | -0.819                                | 225                   | 0.5553             | 400                     | 0.9872               |                            | 0.0000                  | 0.723                               |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 25-Aug-04        | 484.10                 | 30.396                            | -0.683                                | 225                   | 0.5553             | 400                     | 0.9872               |                            | 0.0000                  | 0.860                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-5.582</b>                         |                       | <b>3.887</b>       |                         | <b>16.782</b>        |                            | <b>0.000</b>            | <b>15.087</b>                       |         |
| 26-Aug-04        | 483.90                 | 30.123                            | -0.273                                | 225                   | 0.5553             | 400                     | 0.9872               |                            | 0.0000                  | 1.269                               |         |
| 27-Aug-04        | 483.50                 | 29.577                            | -0.546                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 1.984                               |         |
| 28-Aug-04        | 482.90                 | 28.758                            | -0.819                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 1.711                               |         |
| 29-Aug-04        | 482.90                 | 28.758                            | 0.000                                 | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 2.530                               |         |
| 30-Aug-04        | 480.70                 | 26.012                            | -2.747                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 0.000                               |         |
| 31-Aug-04        | 497.70                 | 54.384                            | 28.372                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 30.902                              |         |
| <b>01-Sep-04</b> | 478.70                 | 23.647                            | -30.737                               | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-6.750</b>                         |                       | <b>3.887</b>       |                         | <b>12.833</b>        |                            | <b>0.000</b>            | <b>38.395</b>                       |         |
| 02-Sep-04        | 477.60                 | 22.485                            | -1.161                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 1.368                               |         |
| 03-Sep-04        | 476.20                 | 21.007                            | -1.478                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 1.051                               |         |
| 04-Sep-04        | 474.70                 | 19.532                            | -1.475                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 1.055                               |         |
| 05-Sep-04        | 473.40                 | 18.301                            | -1.231                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 1.298                               |         |
| 06-Sep-04        | 474.00                 | 18.869                            | 0.568                                 | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 3.098                               |         |
| 07-Sep-04        | 474.00                 | 18.869                            | 0.000                                 | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 2.530                               |         |
| 08-Sep-04        | 473.80                 | 18.680                            | -0.189                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 2.340                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-4.967</b>                         |                       | <b>3.887</b>       |                         | <b>13.820</b>        |                            | <b>0.000</b>            | <b>12.740</b>                       |         |
| 09-Sep-04        | 472.30                 | 17.290                            | -1.390                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 1.140                               |         |
| 10-Sep-04        | 470.70                 | 15.943                            | -1.347                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 1.183                               |         |
| 11-Sep-04        | 469.40                 | 14.992                            | -0.951                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 1.579                               |         |
| 12-Sep-04        | 468.30                 | 14.224                            | -0.768                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 1.761                               |         |
| 13-Sep-04        | 467.10                 | 13.411                            | -0.813                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 1.717                               |         |
| 14-Sep-04        | 465.50                 | 12.368                            | -1.043                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 1.487                               |         |
| 15-Sep-04        | 464.00                 | 11.450                            | -0.919                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 1.611                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-7.230</b>                         |                       | <b>3.887</b>       |                         | <b>13.820</b>        |                            | <b>0.000</b>            | <b>10.477</b>                       |         |
| 16-Sep-04        | 462.20                 | 10.510                            | -0.939                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 1.590                               |         |
| 17-Sep-04        | 472.08                 | 17.052                            | 6.542                                 | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 8.023                               |         |
| 18-Sep-04        | 493.65                 | 45.954                            | 28.902                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 28.902                              |         |
| 19-Sep-04        | 498.55                 | 56.080                            | 10.126                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 10.126                              |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 20-Sep-04        | 499.70                 | 62.268                            | 6.188                                 | 100                   | 0.2468             | 300                     | 0.7404               |                            | 0.0000                  | 7.175                               |         |
| 21-Sep-04        | 500.10                 | 63.997                            | 1.729                                 | 150                   | 0.3702             | 500                     | 1.2339               | 64.3                       | 0.1587                  | 3.492                               |         |
| 22-Sep-04        | 500.10                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 500                     | 1.2339               | 64.3                       | 0.1587                  | 1.886                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>52.547</b>                         |                       | <b>1.913</b>       |                         | <b>6.417</b>         |                            | <b>0.317</b>            | <b>61.194</b>                       |         |
| 23-Sep-04        | 500.10                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 500                     | 1.2339               | 64.3                       | 0.1587                  | 1.886                               |         |
| 24-Sep-04        | 500.10                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 500                     | 1.2339               | 64.3                       | 0.1587                  | 1.886                               |         |
| 25-Sep-04        | 500.10                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 1.728                               |         |
| 26-Sep-04        | 500.00                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 500                     | 1.2339               | 173                        | 0.4269                  | 2.154                               |         |
| 27-Sep-04        | 500.20                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 500                     | 1.2339               | 498                        | 1.2290                  | 2.957                               |         |
| 28-Sep-04        | 500.40                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 500                     | 1.2339               | 698                        | 1.7226                  | 3.450                               |         |
| 29-Sep-04        | 500.50                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 500                     | 1.2339               | 694                        | 1.7127                  | 3.440                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.000</b>                          |                       | <b>3.455</b>       |                         | <b>8.638</b>         |                            | <b>5.409</b>            | <b>17.501</b>                       |         |
| 30-Sep-04        | 500.30                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 500                     | 1.2339               | 308                        | 0.7601                  | 2.488                               |         |
| <b>01-Oct-04</b> | 500.50                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 500                     | 1.2339               | 694                        | 1.7127                  | 3.440                               |         |
| 02-Oct-04        | 501.20                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 500                     | 1.2339               | 2544                       | 6.2783                  | 8.006                               |         |
| 03-Oct-04        | 500.60                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 500                     | 1.2339               | 906                        | 2.2359                  | 3.963                               |         |
| 04-Oct-04        | 500.30                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 500                     | 1.2339               | 308                        | 0.7601                  | 2.488                               |         |
| 05-Oct-04        | 500.10                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 500                     | 1.2339               | 64.3                       | 0.1587                  | 1.886                               |         |
| 06-Oct-04        | 502.00                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 500                     | 1.2339               | 308                        | 0.7601                  | 2.488                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.000</b>                          |                       | <b>3.455</b>       |                         | <b>8.638</b>         |                            | <b>12.666</b>           | <b>24.759</b>                       |         |
| 07-Oct-04        | 503.01                 | 63.997                            | 0.000                                 |                       | 0.0000             | 500                     | 1.2339               | 10000                      | 24.6790                 | 25.913                              |         |
| 08-Oct-04        | 502.00                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 5450                       | 13.4500                 | 13.450                              |         |
| 09-Oct-04        | 501.80                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 4526                       | 11.1697                 | 11.170                              |         |
| 10-Oct-04        | 500.90                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 1646                       | 4.0622                  | 4.309                               |         |
| 11-Oct-04        | 500.70                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 1137                       | 2.8060                  | 3.176                               |         |
| 12-Oct-04        | 500.40                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 498                        | 1.2290                  | 1.599                               |         |
| 13-Oct-04        | 500.70                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 500                     | 1.2339               | 1137                       | 2.8060                  | 4.534                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.000</b>                          |                       | <b>1.481</b>       |                         | <b>2.468</b>         |                            | <b>60.202</b>           | <b>64.150</b>                       |         |
| 14-Oct-04        | 500.70                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 500                     | 1.2339               | 1137                       | 2.8060                  | 4.534                               |         |
| 15-Oct-04        | 500.40                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 500                     | 1.2339               | 498                        | 1.2290                  | 2.957                               |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 16-Oct-04        | 500.30                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 500                     | 1.2339               | 398                        | 0.9822                  | 2.710                               |         |
| 17-Oct-04        | 500.20                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 500                     | 1.2339               | 173                        | 0.4269                  | 2.154                               |         |
| 18-Oct-04        | 500.10                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 500                     | 1.2339               | 64.3                       | 0.1587                  | 1.886                               |         |
| 19-Oct-04        | 499.90                 | 62.844                            | -1.153                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 0.575                               |         |
| 20-Oct-04        | 499.60                 | 61.691                            | -1.153                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 0.575                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-2.306</b>                         |                       | <b>3.455</b>       |                         | <b>8.638</b>         |                            | <b>5.603</b>            | <b>15.390</b>                       |         |
| 21-Oct-04        | 499.30                 | 59.962                            | -1.729                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 0.000                               |         |
| 22-Oct-04        | 498.90                 | 57.657                            | -2.305                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 0.000                               |         |
| 23-Oct-04        | 498.50                 | 56.080                            | -1.577                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 0.151                               |         |
| 24-Oct-04        | 498.00                 | 55.020                            | -1.060                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 0.667                               |         |
| 25-Oct-04        | 497.60                 | 53.960                            | -1.060                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 0.667                               |         |
| 26-Oct-04        | 497.20                 | 53.324                            | -0.636                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 1.091                               |         |
| 27-Oct-04        | 497.00                 | 52.900                            | -0.424                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 1.303                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-8.792</b>                         |                       | <b>3.455</b>       |                         | <b>8.638</b>         |                            | <b>0.000</b>            | <b>3.881</b>                        |         |
| 28-Oct-04        | 496.50                 | 51.628                            | -1.272                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 0.455                               |         |
| 29-Oct-04        | 496.00                 | 50.780                            | -0.848                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 0.879                               |         |
| 30-Oct-04        | 495.50                 | 49.720                            | -1.060                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 0.667                               |         |
| 31-Oct-04        | 495.10                 | 48.915                            | -0.804                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 0.923                               |         |
| <b>01-Nov-04</b> | 494.50                 | 47.731                            | -1.184                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 02-Nov-04        | 494.50                 | 47.731                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 03-Nov-04        | 494.40                 | 47.534                            | -0.197                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-5.366</b>                         |                       | <b>1.974</b>       |                         | <b>4.936</b>         |                            | <b>0.000</b>            | <b>2.926</b>                        |         |
| 04-Nov-04        | 494.30                 | 47.336                            | -0.197                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 05-Nov-04        | 494.30                 | 47.336                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 06-Nov-04        | 494.20                 | 46.941                            | -0.395                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 07-Nov-04        | 494.10                 | 46.941                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 08-Nov-04        | 494.00                 | 46.744                            | -0.197                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 09-Nov-04        | 493.90                 | 46.546                            | -0.197                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10-Nov-04        | 493.80                 | 46.349                            | -0.197                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-1.184</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 11-Nov-04        | 493.70                 | 46.152                            | -0.197                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12-Nov-04        | 493.60                 | 45.954                            | -0.197                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13-Nov-04        | 493.60                 | 45.954                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14-Nov-04        | 493.50                 | 45.757                            | -0.197                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15-Nov-04        | 493.50                 | 45.757                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16-Nov-04        | 493.40                 | 45.559                            | -0.197                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17-Nov-04        | 493.40                 | 45.559                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.790</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 18-Nov-04        | 493.40                 | 45.559                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19-Nov-04        | 493.30                 | 45.362                            | -0.197                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20-Nov-04        | 493.30                 | 45.362                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21-Nov-04        | 493.20                 | 45.165                            | -0.197                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22-Nov-04        | 493.20                 | 45.165                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23-Nov-04        | 493.10                 | 44.770                            | -0.395                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24-Nov-04        | 493.90                 | 46.546                            | 1.777                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.777                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.987</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.777</b>                        |         |
| 25-Nov-04        | 493.00                 | 44.770                            | -1.777                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26-Nov-04        | 492.90                 | 44.572                            | -0.197                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27-Nov-04        | 492.90                 | 44.572                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28-Nov-04        | 492.80                 | 44.375                            | -0.197                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29-Nov-04        | 492.80                 | 44.375                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30-Nov-04        | 492.70                 | 44.178                            | -0.197                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>01-Dec-04</b> | 492.70                 | 44.178                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-2.369</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 02-Dec-04        | 492.70                 | 44.178                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 03-Dec-04        | 492.60                 | 43.980                            | -0.197                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 04-Dec-04        | 492.60                 | 43.980                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 05-Dec-04        | 492.60                 | 43.980                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 06-Dec-04        | 492.50                 | 43.783                            | -0.197                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 07-Dec-04        | 492.50                 | 43.783                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 08-Dec-04        | 492.50                 | 43.783                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.395</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 09-Dec-04        | 492.40                 | 43.585                            | -0.197                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10-Dec-04        | 492.40                 | 43.585                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11-Dec-04        | 492.40                 | 43.585                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12-Dec-04        | 492.40                 | 43.585                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13-Dec-04        | 492.40                 | 43.585                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14-Dec-04        | 492.40                 | 43.585                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15-Dec-04        | 492.30                 | 43.388                            | -0.197                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.395</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 16-Dec-04        | 492.30                 | 43.388                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17-Dec-04        | 492.30                 | 43.388                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18-Dec-04        | 492.30                 | 43.388                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19-Dec-04        | 492.30                 | 43.388                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20-Dec-04        | 492.30                 | 43.388                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21-Dec-04        | 492.30                 | 43.388                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22-Dec-04        | 492.30                 | 43.388                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 23-Dec-04        | 492.20                 | 43.190                            | -0.197                                | 150                   | 0.3702             | 200                     | 0.4936               |                            | 0.0000                  | 0.666                               |         |
| 24-Dec-04        | 491.90                 | 42.675                            | -0.516                                | 150                   | 0.3702             | 200                     | 0.4936               |                            | 0.0000                  | 0.348                               |         |
| 25-Dec-04        | 491.70                 | 42.331                            | -0.344                                | 200                   | 0.4936             | 200                     | 0.4936               |                            | 0.0000                  | 0.643                               |         |
| 26-Dec-04        | 491.40                 | 41.815                            | -0.516                                | 200                   | 0.4936             | 200                     | 0.4936               |                            | 0.0000                  | 0.471                               |         |
| 27-Dec-04        | 491.10                 | 41.299                            | -0.516                                | 200                   | 0.4936             | 200                     | 0.4936               |                            | 0.0000                  | 0.471                               |         |
| 28-Dec-04        | 491.70                 | 42.331                            | 1.032                                 | 200                   | 0.4936             | 200                     | 0.4936               |                            | 0.0000                  | 2.019                               |         |
| 29-Dec-04        | 490.10                 | 39.579                            | -2.752                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 0.000                               |         |
| 30-Dec-04        | 489.70                 | 38.891                            | -0.688                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 1.040                               |         |
| 31-Dec-04        | 489.30                 | 38.203                            | -0.688                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 1.040                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-5.185</b>                         |                       | <b>4.195</b>       |                         | <b>6.663</b>         |                            | <b>0.000</b>            | <b>6.698</b>                        |         |
| <b>01-Jan-05</b> | 489.00                 | 37.687                            | -0.516                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 1.212                               |         |
| 02-Jan-05        | 488.50                 | 36.900                            | -0.787                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 0.941                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 03-Jan-05    | 488.10                 | 36.286                            | -0.615                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 1.113                               |         |
| 04-Jan-05    | 487.50                 | 35.210                            | -1.076                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 0.652                               |         |
| 05-Jan-05    | 487.20                 | 34.903                            | -0.307                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 1.420                               |         |
| 06-Jan-05    | 486.70                 | 34.134                            | -0.768                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 0.959                               |         |
| 07-Jan-05    | 486.20                 | 33.366                            | -0.768                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 0.959                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-4.837</b>                         |                       | <b>3.455</b>       |                         | <b>8.638</b>         |                            | <b>0.000</b>            | <b>7.256</b>                        |         |
| 08-Jan-05    | 485.60                 | 32.444                            | -0.922                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 0.805                               |         |
| 09-Jan-05    | 485.10                 | 31.761                            | -0.683                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 1.045                               |         |
| 10-Jan-05    | 484.70                 | 31.215                            | -0.546                                | 200                   | 0.4936             | 500                     | 1.2339               |                            | 0.0000                  | 1.181                               |         |
| 11-Jan-05    | 484.20                 | 30.396                            | -0.819                                | 30                    | 0.0740             | 500                     | 1.2339               |                            | 0.0000                  | 0.489                               |         |
| 12-Jan-05    | 483.90                 | 30.123                            | -0.273                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.961                               |         |
| 13-Jan-05    | 483.60                 | 29.714                            | -0.410                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.824                               |         |
| 14-Jan-05    | 483.20                 | 29.168                            | -0.546                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.688                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-4.198</b>                         |                       | <b>2.295</b>       |                         | <b>7.897</b>         |                            | <b>0.000</b>            | <b>5.994</b>                        |         |
| 15-Jan-05    | 482.30                 | 27.939                            | -1.229                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.005                               |         |
| 16-Jan-05    | 481.70                 | 27.216                            | -0.723                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.511                               |         |
| 17-Jan-05    | 481.10                 | 26.493                            | -0.723                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.511                               |         |
| 18-Jan-05    | 480.60                 | 25.891                            | -0.602                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.632                               |         |
| 19-Jan-05    | 480.10                 | 25.289                            | -0.602                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.632                               |         |
| 20-Jan-05    | 479.60                 | 24.686                            | -0.602                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.632                               |         |
| 21-Jan-05    | 479.00                 | 23.963                            | -0.723                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.511                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-5.204</b>                         |                       | <b>1.728</b>       |                         | <b>6.910</b>         |                            | <b>0.000</b>            | <b>3.433</b>                        |         |
| 22-Jan-05    | 478.50                 | 23.435                            | -0.528                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.706                               |         |
| 23-Jan-05    | 478.00                 | 22.908                            | -0.528                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.706                               |         |
| 24-Jan-05    | 477.40                 | 22.168                            | -0.739                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.495                               |         |
| 25-Jan-05    | 476.90                 | 21.746                            | -0.422                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.812                               |         |
| 26-Jan-05    | 476.30                 | 21.007                            | -0.739                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.495                               |         |
| 27-Jan-05    | 475.80                 | 20.585                            | -0.422                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.812                               |         |
| 28-Jan-05    | 475.10                 | 19.911                            | -0.674                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.560                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-4.053</b>                         |                       | <b>1.728</b>       |                         | <b>6.910</b>         |                            | <b>0.000</b>            | <b>4.585</b>                        |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 29-Jan-05        | 474.30                 | 19.153                            | -0.758                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.476                               |         |
| 30-Jan-05        | 473.60                 | 18.490                            | -0.663                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.571                               |         |
| 31-Jan-05        | 473.00                 | 17.922                            | -0.568                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.666                               |         |
| <b>01-Feb-05</b> | 472.10                 | 17.132                            | -0.790                                | 150                   | 0.3702             | 350                     | 0.8638               |                            | 0.0000                  | 0.444                               |         |
| 02-Feb-05        | 471.20                 | 16.418                            | -0.713                                | 150                   | 0.3702             | 350                     | 0.8638               |                            | 0.0000                  | 0.521                               |         |
| 03-Feb-05        | 470.40                 | 15.785                            | -0.634                                | 150                   | 0.3702             | 350                     | 0.8638               |                            | 0.0000                  | 0.600                               |         |
| 04-Feb-05        | 469.60                 | 15.072                            | -0.713                                | 150                   | 0.3702             | 350                     | 0.8638               |                            | 0.0000                  | 0.521                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-4.839</b>                         |                       | <b>2.221</b>       |                         | <b>6.417</b>         |                            | <b>0.000</b>            | <b>3.798</b>                        |         |
| 05-Feb-05        | 469.10                 | 14.766                            | -0.305                                | 150                   | 0.3702             | 300                     | 0.7404               |                            | 0.0000                  | 0.805                               |         |
| 06-Feb-05        | 468.70                 | 14.495                            | -0.271                                | 200                   | 0.4936             | 300                     | 0.7404               |                            | 0.0000                  | 0.963                               |         |
| 07-Feb-05        | 468.10                 | 14.089                            | -0.407                                | 200                   | 0.4936             | 300                     | 0.7404               |                            | 0.0000                  | 0.827                               |         |
| 08-Feb-05        | 467.70                 | 13.818                            | -0.271                                | 200                   | 0.4936             | 300                     | 0.7404               |                            | 0.0000                  | 0.963                               |         |
| 09-Feb-05        | 467.30                 | 13.547                            | -0.271                                | 200                   | 0.4936             | 200                     | 0.4936               |                            | 0.0000                  | 0.716                               |         |
| 10-Feb-05        | 466.80                 | 13.208                            | -0.339                                | 200                   | 0.4936             | 200                     | 0.4936               |                            | 0.0000                  | 0.648                               |         |
| 11-Feb-05        | 466.20                 | 12.801                            | -0.407                                | 200                   | 0.4936             | 200                     | 0.4936               |                            | 0.0000                  | 0.581                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-2.270</b>                         |                       | <b>3.332</b>       |                         | <b>4.442</b>         |                            | <b>0.000</b>            | <b>5.504</b>                        |         |
| 12-Feb-05        | 465.70                 | 12.483                            | -0.318                                | 200                   | 0.4936             | 200                     | 0.4936               |                            | 0.0000                  | 0.669                               |         |
| 13-Feb-05        | 465.30                 | 12.253                            | -0.230                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.511                               |         |
| 14-Feb-05        | 464.90                 | 12.024                            | -0.230                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.511                               |         |
| 15-Feb-05        | 464.30                 | 11.679                            | -0.345                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.396                               |         |
| 16-Feb-05        | 463.80                 | 11.392                            | -0.287                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.453                               |         |
| 17-Feb-05        | 463.10                 | 10.990                            | -0.402                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.338                               |         |
| 18-Feb-05        | 462.70                 | 10.760                            | -0.230                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.511                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-2.041</b>                         |                       | <b>3.455</b>       |                         | <b>1.974</b>         |                            | <b>0.000</b>            | <b>3.389</b>                        |         |
| 19-Feb-05        | 462.10                 | 10.462                            | -0.299                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.442                               |         |
| 20-Feb-05        | 461.10                 | 9.980                             | -0.482                                | 200                   | 0.4936             | 100                     | 0.2468               |                            | 0.0000                  | 0.258                               |         |
| 21-Feb-05        | 460.80                 | 9.835                             | -0.145                                | 150                   | 0.3702             | 100                     | 0.2468               |                            | 0.0000                  | 0.472                               |         |
| 22-Feb-05        | 460.50                 | 9.690                             | -0.145                                | 150                   | 0.3702             | 100                     | 0.2468               |                            | 0.0000                  | 0.472                               |         |
| 23-Feb-05        | 460.30                 | 9.594                             | -0.096                                | 150                   | 0.3702             | 100                     | 0.2468               |                            | 0.0000                  | 0.521                               |         |
| 24-Feb-05        | 460.10                 | 9.497                             | -0.096                                | 150                   | 0.3702             | 100                     | 0.2468               |                            | 0.0000                  | 0.521                               |         |



| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 25-Feb-05        | 459.50                 | 9.208                             | -0.289                                | 150                   | 0.3702             | 100                     | 0.2468               |                            | 0.0000                  | 0.328                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-1.553</b>                         |                       | <b>2.838</b>       |                         | <b>1.728</b>         |                            | <b>0.000</b>            | <b>3.013</b>                        |         |
| 26-Feb-05        | 459.20                 | 9.070                             | -0.138                                | 150                   | 0.3702             | 100                     | 0.2468               |                            | 0.0000                  | 0.479                               |         |
| 27-Feb-05        | 458.50                 | 8.780                             | -0.290                                | 150                   | 0.3702             | 400                     | 0.9872               |                            | 0.0000                  | 1.067                               |         |
| 28-Feb-05        | 457.70                 | 8.448                             | -0.332                                | 150                   | 0.3702             | 400                     | 0.9872               |                            | 0.0000                  | 1.026                               |         |
| <b>01-Mar-05</b> | 456.70                 | 8.034                             | -0.414                                | 150                   | 0.3702             | 400                     | 0.9872               |                            | 0.0000                  | 0.943                               |         |
| 02-Mar-05        | 455.60                 | 7.619                             | -0.415                                | 150                   | 0.3702             | 400                     | 0.9872               |                            | 0.0000                  | 0.942                               |         |
| 03-Mar-05        | 454.40                 | 7.220                             | -0.399                                | 150                   | 0.3702             | 400                     | 0.9872               |                            | 0.0000                  | 0.958                               |         |
| 04-Mar-05        | 453.30                 | 6.854                             | -0.366                                | 150                   | 0.3702             | 400                     | 0.9872               |                            | 0.0000                  | 0.991                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-2.354</b>                         |                       | <b>2.591</b>       |                         | <b>6.170</b>         |                            | <b>0.000</b>            | <b>6.407</b>                        |         |
| 05-Mar-05        | 452.40                 | 6.577                             | -0.276                                | 150                   | 0.3702             | 400                     | 0.9872               |                            | 0.0000                  | 1.081                               |         |
| 06-Mar-05        | 451.60                 | 6.357                             | -0.220                                | 100                   | 0.2468             | 50                      | 0.1234               |                            | 0.0000                  | 0.150                               |         |
| 07-Mar-05        | 451.30                 | 6.275                             | -0.083                                | 100                   | 0.2468             | 50                      | 0.1234               |                            | 0.0000                  | 0.288                               |         |
| 08-Mar-05        | 451.00                 | 6.192                             | -0.083                                | 100                   | 0.2468             | 50                      | 0.1234               |                            | 0.0000                  | 0.288                               |         |
| 09-Mar-05        | 450.50                 | 6.055                             | -0.138                                | 100                   | 0.2468             | 50                      | 0.1234               |                            | 0.0000                  | 0.233                               |         |
| 10-Mar-05        | 449.90                 | 5.890                             | -0.165                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 1.069                               |         |
| 11-Mar-05        | 448.30                 | 5.483                             | -0.407                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.827                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-1.371</b>                         |                       | <b>1.851</b>       |                         | <b>3.455</b>         |                            | <b>0.000</b>            | <b>3.935</b>                        |         |
| 12-Mar-05        | 447.10                 | 5.186                             | -0.297                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.937                               |         |
| 13-Mar-05        | 445.90                 | 4.890                             | -0.296                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.938                               |         |
| 14-Mar-05        | 444.50                 | 4.549                             | -0.341                                | 100                   | 0.2468             | 400                     | 0.9872               |                            | 0.0000                  | 0.893                               |         |
| 15-Mar-05        | 443.20                 | 4.233                             | -0.317                                | 200                   | 0.4936             | 400                     | 0.9872               |                            | 0.0000                  | 1.164                               |         |
| 16-Mar-05        | 441.80                 | 3.888                             | -0.345                                | 200                   | 0.4936             | 400                     | 0.9872               |                            | 0.0000                  | 1.136                               |         |
| 17-Mar-05        | 440.30                 | 3.517                             | -0.371                                | 200                   | 0.4936             | 400                     | 0.9872               |                            | 0.0000                  | 1.110                               |         |
| 18-Mar-05        | 438.80                 | 3.157                             | -0.360                                | 200                   | 0.4936             | 400                     | 0.9872               |                            | 0.0000                  | 1.120                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-2.326</b>                         |                       | <b>2.715</b>       |                         | <b>6.910</b>         |                            | <b>0.000</b>            | <b>7.299</b>                        |         |
| 19-Mar-05        | 437.10                 | 2.756                             | -0.401                                | 200                   | 0.4936             | 400                     | 0.9872               |                            | 0.0000                  | 1.080                               |         |
| 20-Mar-05        | 435.40                 | 2.360                             | -0.397                                | 150                   | 0.3702             | 350                     | 0.8638               |                            | 0.0000                  | 0.837                               |         |
| 21-Mar-05        | 433.80                 | 1.989                             | -0.371                                | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.370                               |         |
| 22-Mar-05        | 432.00                 | 1.576                             | -0.413                                | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.327                               |         |

| Date             | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 23-Mar-05        | 431.00                 | 1.348                             | -0.228                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.019                               |         |
| 24-Mar-05        | 438.00                 | 2.968                             | 1.620                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 1.867                               |         |
| 25-Mar-05        | 438.00                 | 2.968                             | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.189</b>                         |                       | <b>2.098</b>       |                         | <b>2.838</b>         |                            | <b>0.000</b>            | <b>4.747</b>                        |         |
| 26-Mar-05        | 438.00                 | 2.968                             | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 27-Mar-05        | 437.58                 | 2.851                             | -0.118                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.129                               |         |
| 28-Mar-05        | 437.00                 | 2.733                             | -0.118                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.129                               |         |
| 29-Mar-05        | 436.60                 | 2.639                             | -0.094                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.153                               |         |
| 30-Mar-05        | 436.10                 | 2.522                             | -0.117                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.130                               |         |
| 31-Mar-05        | 435.50                 | 2.383                             | -0.139                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.108                               |         |
| <b>01-Apr-05</b> | 434.70                 | 2.197                             | -0.185                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.771</b>                         |                       | <b>1.481</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.895</b>                        |         |
| 02-Apr-05        | 434.50                 | 2.151                             | -0.046                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 03-Apr-05        | 434.30                 | 2.105                             | -0.046                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 04-Apr-05        | 434.10                 | 2.058                             | -0.046                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 05-Apr-05        | 433.90                 | 2.012                             | -0.046                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 06-Apr-05        | 433.80                 | 1.989                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 07-Apr-05        | 433.70                 | 1.966                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 08-Apr-05        | 433.60                 | 1.942                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.255</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 09-Apr-05        | 433.50                 | 1.919                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10-Apr-05        | 433.40                 | 1.896                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11-Apr-05        | 433.30                 | 1.873                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12-Apr-05        | 433.10                 | 1.827                             | -0.046                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13-Apr-05        | 433.00                 | 1.804                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14-Apr-05        | 432.90                 | 1.758                             | -0.046                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15-Apr-05        | 432.80                 | 1.758                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.184</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 16-Apr-05        | 432.60                 | 1.713                             | -0.046                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17-Apr-05        | 432.50                 | 1.690                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 18-Apr-05        | 432.50                 | 1.690                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19-Apr-05        | 432.40                 | 1.667                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20-Apr-05        | 432.30                 | 1.644                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21-Apr-05        | 432.20                 | 1.621                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22-Apr-05        | 432.10                 | 1.599                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.160</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 23-Apr-05        | 431.90                 | 1.553                             | -0.046                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24-Apr-05        | 431.80                 | 1.508                             | -0.046                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25-Apr-05        | 431.70                 | 1.508                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26-Apr-05        | 431.60                 | 1.485                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27-Apr-05        | 431.40                 | 1.439                             | -0.046                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28-Apr-05        | 431.30                 | 1.416                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29-Apr-05        | 431.20                 | 1.394                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.205</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 30-Apr-05        | 431.10                 | 1.371                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>01-May-05</b> | 431.00                 | 1.348                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 02-May-05        | 431.00                 | 1.348                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 03-May-05        | 431.00                 | 1.348                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 04-May-05        | 431.00                 | 1.348                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 05-May-05        | 431.00                 | 1.348                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 06-May-05        | 431.00                 | 1.348                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.046</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 07-May-05        | 430.90                 | 1.325                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 08-May-05        | 430.90                 | 1.325                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 09-May-05        | 430.90                 | 1.325                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10-May-05        | 430.90                 | 1.325                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11-May-05        | 430.90                 | 1.325                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12-May-05        | 430.80                 | 1.302                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13-May-05        | 430.80                 | 1.302                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.046</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 14-May-05        | 430.80                 | 1.302                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15-May-05        | 430.70                 | 1.280                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16-May-05        | 430.70                 | 1.280                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17-May-05        | 430.70                 | 1.280                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18-May-05        | 430.70                 | 1.280                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19-May-05        | 430.60                 | 1.234                             | -0.046                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20-May-05        | 430.60                 | 1.234                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.068</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 21-May-05        | 430.60                 | 1.234                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22-May-05        | 430.50                 | 1.234                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23-May-05        | 430.50                 | 1.234                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24-May-05        | 430.50                 | 1.234                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25-May-05        | 430.50                 | 1.234                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26-May-05        | 430.50                 | 1.234                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27-May-05        | 430.50                 | 1.234                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 28-May-05        | 430.40                 | 1.211                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29-May-05        | 430.40                 | 1.211                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30-May-05        | 430.40                 | 1.211                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31-May-05        | 430.40                 | 1.211                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>01-Jun-05</b> | 430.30                 | 1.189                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 02-Jun-05        | 430.20                 | 1.166                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 03-Jun-05        | 430.20                 | 1.166                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.068</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 04-Jun-05        | 430.10                 | 1.143                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 05-Jun-05        | 430.10                 | 1.143                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 06-Jun-05        | 430.00                 | 1.120                             | -0.023                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 07-Jun-05        | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 08-Jun-05        | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 09-Jun-05        | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 10-Jun-05        | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.046</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 11-Jun-05        | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12-Jun-05        | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13-Jun-05        | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14-Jun-05        | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15-Jun-05        | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16-Jun-05        | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17-Jun-05        | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 18-Jun-05        | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19-Jun-05        | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20-Jun-05        | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21-Jun-05        | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22-Jun-05        | 435.00                 | 2.267                             | 1.147                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.147                               |         |
| 23-Jun-05        | 435.80                 | 2.452                             | 0.185                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.185                               |         |
| 24-Jun-05        | 436.30                 | 2.568                             | 0.116                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.116                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>1.448</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.448</b>                        |         |
| 25-Jun-05        | 437.00                 | 2.733                             | 0.165                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.165                               |         |
| 26-Jun-05        | 439.00                 | 3.204                             | 0.471                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.471                               |         |
| 27-Jun-05        | 439.20                 | 3.251                             | 0.047                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.047                               |         |
| 28-Jun-05        | 439.70                 | 3.369                             | 0.118                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.118                               |         |
| 29-Jun-05        | 440.00                 | 3.443                             | 0.074                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.074                               |         |
| 30-Jun-05        | 440.50                 | 3.567                             | 0.124                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.124                               |         |
| <b>01-Jul-05</b> | 449.70                 | 5.807                             | 2.241                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.241                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>3.239</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>3.239</b>                        |         |
| 02-Jul-05        | 454.00                 | 7.087                             | 1.279                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.279                               |         |
| 03-Jul-05        | 455.80                 | 7.686                             | 0.599                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.599                               |         |
| 04-Jul-05        | 461.00                 | 9.931                             | 2.246                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.246                               |         |
| 05-Jul-05        | 470.50                 | 15.864                            | 5.933                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 5.933                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 06-Jul-05    | 473.80                 | 18.680                            | 2.816                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.816                               |         |
| 07-Jul-05    | 476.50                 | 21.324                            | 2.644                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.644                               |         |
| 08-Jul-05    | 476.50                 | 21.324                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>15.516</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>15.516</b>                       |         |
| 09-Jul-05    | 476.50                 | 21.324                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10-Jul-05    | 476.60                 | 21.429                            | 0.106                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.106                               |         |
| 11-Jul-05    | 476.60                 | 21.429                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12-Jul-05    | 477.30                 | 22.168                            | 0.739                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.739                               |         |
| 13-Jul-05    | 479.85                 | 24.927                            | 2.759                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.759                               |         |
| 14-Jul-05    | 482.45                 | 28.076                            | 3.148                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 3.148                               |         |
| 15-Jul-05    | 486.60                 | 33.981                            | 5.905                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 5.905                               |         |
| <b>TOTAL</b> |                        |                                   | <b>12.657</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>12.657</b>                       |         |
| 16-Jul-05    | 488.60                 | 37.054                            | 3.073                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 3.073                               |         |
| 17-Jul-05    | 490.50                 | 40.267                            | 3.213                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 3.213                               |         |
| 18-Jul-05    | 494.43                 | 47.534                            | 7.267                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 7.267                               |         |
| 19-Jul-05    | 499.68                 | 61.691                            | 14.158                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 14.158                              |         |
| 20-Jul-05    | 501.63                 | 63.997                            | 2.306                                 |                       | 0.0000             |                         | 0.0000               | 5450                       | 13.4500                 | 15.756                              |         |
| 21-Jul-05    | 501.05                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 2544                       | 6.2783                  | 6.278                               |         |
| 22-Jul-05    | 500.70                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1137                       | 2.8060                  | 2.806                               |         |
| <b>TOTAL</b> |                        |                                   | <b>30.016</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>22.534</b>           | <b>52.551</b>                       |         |
| 23-Jul-05    | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 694                        | 1.7127                  | 1.713                               |         |
| 24-Jul-05    | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498                        | 1.2290                  | 1.229                               |         |
| 25-Jul-05    | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 308                        | 0.7601                  | 0.760                               |         |
| 26-Jul-05    | 500.25                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 27-Jul-05    | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28-Jul-05    | 500.60                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 906                        | 2.2359                  | 2.236                               |         |
| 29-Jul-05    | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498                        | 1.2290                  | 1.229                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>7.594</b>            | <b>7.594</b>                        |         |
| 30-Jul-05    | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 308                        | 0.7601                  | 0.760                               |         |
| 31-Jul-05    | 500.35                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498                        | 1.2290                  | 1.229                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 01-Aug-05    | 500.30                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 308                        | 0.7601                  | 1.007                               |         |
| 02-Aug-05    | 500.20                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 173                        | 0.4269                  | 0.674                               |         |
| 03-Aug-05    | 500.20                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 173                        | 0.4269                  | 0.674                               |         |
| 04-Aug-05    | 500.00                 | 63.997                            | 0.000                                 | 175                   | 0.4319             | 250                     | 0.6170               |                            | 0.0000                  | 1.049                               |         |
| 05-Aug-05    | 499.70                 | 62.268                            | -1.729                                | 175                   | 0.4319             | 700                     | 1.7275               |                            | 0.0000                  | 0.430                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-1.729</b>                         |                       | <b>1.604</b>       |                         | <b>2.345</b>         |                            | <b>3.603</b>            | <b>5.823</b>                        |         |
| 06-Aug-05    | 499.50                 | 61.115                            | -1.153                                | 175                   | 0.4319             | 700                     | 1.7275               |                            | 0.0000                  | 1.007                               |         |
| 07-Aug-05    | 499.10                 | 58.810                            | -2.305                                | 175                   | 0.4319             | 700                     | 1.7275               |                            | 0.0000                  | 0.000                               |         |
| 08-Aug-05    | 499.00                 | 58.233                            | -0.576                                | 175                   | 0.4319             | 700                     | 1.7275               |                            | 0.0000                  | 1.583                               |         |
| 09-Aug-05    | 499.40                 | 60.539                            | 2.305                                 | 175                   | 0.4319             | 700                     | 1.7275               |                            | 0.0000                  | 4.465                               |         |
| 10-Aug-05    | 499.40                 | 60.539                            | 0.000                                 | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 2.900                               |         |
| 11-Aug-05    | 499.00                 | 58.233                            | -2.305                                | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 0.594                               |         |
| 12-Aug-05    | 498.40                 | 55.868                            | -2.365                                | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 0.535                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-6.400</b>                         |                       | <b>3.023</b>       |                         | <b>14.314</b>        |                            | <b>0.000</b>            | <b>11.083</b>                       |         |
| 13-Aug-05    | 497.90                 | 54.808                            | -1.060                                | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 1.840                               |         |
| 14-Aug-05    | 498.20                 | 55.444                            | 0.636                                 | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 3.536                               |         |
| 15-Aug-05    | 500.25                 | 63.997                            | 8.553                                 | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 11.453                              |         |
| 16-Aug-05    | 500.10                 | 63.997                            | 0.000                                 | 175                   | 0.4319             | 1000                    | 2.4679               | 173                        | 0.4269                  | 3.327                               |         |
| 17-Aug-05    | 499.80                 | 62.844                            | -1.153                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.809                               |         |
| 18-Aug-05    | 499.20                 | 59.386                            | -3.458                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 0.000                               |         |
| 19-Aug-05    | 498.80                 | 56.504                            | -2.882                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 0.080                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.636</b>                          |                       | <b>3.208</b>       |                         | <b>17.275</b>        |                            | <b>0.427</b>            | <b>22.043</b>                       |         |
| 20-Aug-05    | 498.50                 | 56.080                            | -0.424                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 2.537                               |         |
| 21-Aug-05    | 499.43                 | 60.539                            | 4.459                                 | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 7.420                               |         |
| 22-Aug-05    | 500.68                 | 63.997                            | 3.458                                 | 200                   | 0.4936             | 1000                    | 2.4679               | 694                        | 1.7127                  | 8.133                               |         |
| 23-Aug-05    | 501.03                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 1000                    | 2.4679               | 1927                       | 4.7556                  | 7.717                               |         |
| 24-Aug-05    | 500.70                 | 63.997                            | 0.000                                 | 200                   | 0.4936             | 1000                    | 2.4679               | 498                        | 1.2290                  | 4.190                               |         |
| 25-Aug-05    | 500.40                 | 63.997                            | 0.000                                 | 150                   | 0.3702             | 1000                    | 2.4679               | 64.3                       | 0.1587                  | 2.997                               |         |
| 26-Aug-05    | 500.05                 | 63.997                            | 0.000                                 | 150                   | 0.3702             | 1000                    | 2.4679               | 1214.3                     | 2.9968                  | 5.835                               |         |
| <b>TOTAL</b> |                        |                                   | <b>7.493</b>                          |                       | <b>3.208</b>       |                         | <b>17.275</b>        |                            | <b>10.853</b>           | <b>38.829</b>                       |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 27-Aug-05        | 499.70                 | 62.268                            | -1.729                                | 150                   | 0.3702             | 1000                    | 2.4679               |                            | 0.0000                  | 1.109                               |         |
| 28-Aug-05        | 499.20                 | 59.386                            | -2.882                                | 150                   | 0.3702             | 1000                    | 2.4679               |                            | 0.0000                  | 0.000                               |         |
| 29-Aug-05        | 498.50                 | 56.080                            | -3.306                                | 150                   | 0.3702             | 1000                    | 2.4679               |                            | 0.0000                  | 0.000                               |         |
| 30-Aug-05        | 497.70                 | 54.384                            | -1.696                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.265                               |         |
| 31-Aug-05        | 497.00                 | 52.900                            | -1.484                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.477                               |         |
| <b>01-Sep-05</b> | 496.10                 | 50.992                            | -1.908                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.053                               |         |
| 02-Sep-05        | 495.30                 | 49.310                            | -1.682                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.280                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-14.687</b>                        |                       | <b>3.085</b>       |                         | <b>17.275</b>        |                            | <b>0.000</b>            | <b>6.185</b>                        |         |
| 03-Sep-05        | 494.40                 | 47.534                            | -1.777                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.185                               |         |
| 04-Sep-05        | 493.50                 | 45.757                            | -1.777                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.185                               |         |
| 05-Sep-05        | 492.80                 | 44.375                            | -1.382                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.580                               |         |
| 06-Sep-05        | 492.00                 | 42.675                            | -1.700                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.261                               |         |
| 07-Sep-05        | 491.10                 | 41.299                            | -1.376                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.586                               |         |
| 08-Sep-05        | 490.50                 | 40.267                            | -1.032                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 1.967                               |         |
| 09-Sep-05        | 489.80                 | 38.891                            | -1.376                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 1.623                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-10.419</b>                        |                       | <b>3.529</b>       |                         | <b>17.275</b>        |                            | <b>0.000</b>            | <b>10.385</b>                       |         |
| 10-Sep-05        | 488.90                 | 37.515                            | -1.376                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 1.623                               |         |
| 11-Sep-05        | 488.40                 | 36.747                            | -0.768                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 2.230                               |         |
| 12-Sep-05        | 489.20                 | 38.031                            | 1.284                                 | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 4.283                               |         |
| 13-Sep-05        | 489.00                 | 37.687                            | -0.344                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 2.655                               |         |
| 14-Sep-05        | 488.50                 | 36.900                            | -0.787                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 2.212                               |         |
| 15-Sep-05        | 487.60                 | 35.517                            | -1.383                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 1.615                               |         |
| 16-Sep-05        | 486.90                 | 34.442                            | -1.076                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 1.923                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-4.449</b>                         |                       | <b>3.714</b>       |                         | <b>17.275</b>        |                            | <b>0.000</b>            | <b>16.540</b>                       |         |
| 17-Sep-05        | 485.90                 | 32.905                            | -1.537                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 1.462                               |         |
| 18-Sep-05        | 485.40                 | 32.171                            | -0.734                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 2.264                               |         |
| 19-Sep-05        | 485.00                 | 31.625                            | -0.546                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 2.452                               |         |
| 20-Sep-05        | 484.40                 | 30.806                            | -0.819                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 2.179                               |         |
| 21-Sep-05        | 483.40                 | 29.441                            | -1.365                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 1.633                               |         |
| 22-Sep-05        | 482.10                 | 27.698                            | -1.743                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 1.256                               |         |



| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 23-Sep-05        | 481.20                 | 26.614                            | -1.084                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 1.914                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-7.828</b>                         |                       | <b>3.714</b>       |                         | <b>17.275</b>        |                            | <b>0.000</b>            | <b>13.162</b>                       |         |
| 24-Sep-05        | 480.40                 | 25.650                            | -0.964                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 2.035                               |         |
| 25-Sep-05        | 479.60                 | 24.686                            | -0.964                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 2.035                               |         |
| 26-Sep-05        | 478.50                 | 23.435                            | -1.251                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 1.748                               |         |
| 27-Sep-05        | 477.40                 | 22.168                            | -1.267                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 1.731                               |         |
| 28-Sep-05        | 476.00                 | 20.796                            | -1.373                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 1.626                               |         |
| 29-Sep-05        | 474.80                 | 19.627                            | -1.169                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 1.829                               |         |
| 30-Sep-05        | 473.10                 | 18.017                            | -1.610                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 1.388                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-8.597</b>                         |                       | <b>3.714</b>       |                         | <b>17.275</b>        |                            | <b>0.000</b>            | <b>12.392</b>                       |         |
| <b>01-Oct-05</b> | 470.90                 | 16.181                            | -1.836                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 1.163                               |         |
| 02-Oct-05        | 469.40                 | 14.992                            | -1.188                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 1.810                               |         |
| 03-Oct-05        | 468.40                 | 14.292                            | -0.700                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 2.298                               |         |
| 04-Oct-05        | 467.10                 | 13.411                            | -0.881                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 2.118                               |         |
| 05-Oct-05        | 465.20                 | 12.139                            | -1.272                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 1.726                               |         |
| 06-Oct-05        | 463.00                 | 10.933                            | -1.206                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 1.793                               |         |
| 07-Oct-05        | 460.60                 | 9.738                             | -1.194                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 1.804                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-8.278</b>                         |                       | <b>3.714</b>       |                         | <b>17.275</b>        |                            | <b>0.000</b>            | <b>12.711</b>                       |         |
| 08-Oct-05        | 458.90                 | 8.946                             | -0.793                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 2.206                               |         |
| 09-Oct-05        | 457.00                 | 8.158                             | -0.787                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 2.211                               |         |
| 10-Oct-05        | 454.20                 | 7.153                             | -1.005                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 1.993                               |         |
| 11-Oct-05        | 451.90                 | 6.412                             | -0.741                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 2.258                               |         |
| 12-Oct-05        | 448.80                 | 5.607                             | -0.806                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 2.193                               |         |
| 13-Oct-05        | 445.70                 | 4.842                             | -0.765                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 2.233                               |         |
| 14-Oct-05        | 442.00                 | 3.937                             | -0.904                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 2.094                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-5.801</b>                         |                       | <b>3.714</b>       |                         | <b>17.275</b>        |                            | <b>0.000</b>            | <b>15.188</b>                       |         |
| 15-Oct-05        | 438.00                 | 2.968                             | -0.969                                | 215                   | 0.5306             | 1000                    | 2.4679               |                            | 0.0000                  | 2.030                               |         |
| 16-Oct-05        | 433.00                 | 1.804                             | -1.165                                | 215                   | 0.5306             | 400                     | 0.9872               |                            | 0.0000                  | 0.353                               |         |
| 17-Oct-05        | 430.00                 | 1.120                             | -0.684                                | 200                   | 0.4936             | 200                     | 0.4936               |                            | 0.0000                  | 0.304                               |         |
| 18-Oct-05        | 430.00                 | 1.120                             | 0.000                                 | 175                   | 0.4319             | 200                     | 0.4936               |                            | 0.0000                  | 0.925                               |         |

| Date             | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 19-Oct-05        | 430.00                 | 1.120                             | 0.000                                 | 175                   | 0.4319             | 200                     | 0.4936               |                            | 0.0000                  | 0.925                               |         |
| 20-Oct-05        | 430.00                 | 1.120                             | 0.000                                 | 175                   | 0.4319             | 200                     | 0.4936               |                            | 0.0000                  | 0.925                               |         |
| 21-Oct-05        | 430.00                 | 1.120                             | 0.000                                 | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.740                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-2.817</b>                         |                       | <b>3.097</b>       |                         | <b>5.923</b>         |                            | <b>0.000</b>            | <b>6.203</b>                        |         |
| 22-Oct-05        | 448.60                 | 5.532                             | 4.412                                 | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 5.153                               |         |
| 23-Oct-05        | 451.30                 | 6.275                             | 0.742                                 | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 1.483                               |         |
| 24-Oct-05        | 452.90                 | 6.721                             | 0.446                                 | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 1.186                               |         |
| 25-Oct-05        | 453.60                 | 6.954                             | 0.233                                 | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.973                               |         |
| 26-Oct-05        | 453.90                 | 7.053                             | 0.100                                 | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.840                               |         |
| 27-Oct-05        | 454.10                 | 7.087                             | 0.033                                 | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.774                               |         |
| 28-Oct-05        | 454.20                 | 7.153                             | 0.067                                 | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.807                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>6.033</b>                          |                       | <b>1.728</b>       |                         | <b>3.455</b>         |                            | <b>0.000</b>            | <b>11.216</b>                       |         |
| 29-Oct-05        | 454.20                 | 7.153                             | 0.000                                 | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.740                               |         |
| 30-Oct-05        | 454.30                 | 7.186                             | 0.033                                 | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.774                               |         |
| 31-Oct-05        | 454.30                 | 7.186                             | 0.000                                 | 100                   | 0.2468             | 200                     | 0.4936               |                            | 0.0000                  | 0.740                               |         |
| <b>01-Nov-05</b> | 453.80                 | 7.020                             | -0.166                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 02-Nov-05        | 453.80                 | 7.020                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 03-Nov-05        | 453.80                 | 7.020                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 04-Nov-05        | 453.80                 | 7.020                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.133</b>                         |                       | <b>0.740</b>       |                         | <b>1.481</b>         |                            | <b>0.000</b>            | <b>2.254</b>                        |         |
| 05-Nov-05        | 453.80                 | 7.020                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 06-Nov-05        | 453.70                 | 6.987                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 07-Nov-05        | 453.70                 | 6.987                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 08-Nov-05        | 453.70                 | 6.987                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 09-Nov-05        | 453.70                 | 6.987                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10-Nov-05        | 453.70                 | 6.987                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11-Nov-05        | 453.80                 | 7.020                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.033</b>                        |         |
| 12-Nov-05        | 453.80                 | 7.020                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13-Nov-05        | 453.80                 | 7.020                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 14-Nov-05        | 453.80                 | 7.020                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15-Nov-05        | 453.80                 | 7.020                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16-Nov-05        | 453.80                 | 7.020                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17-Nov-05        | 453.90                 | 7.053                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 18-Nov-05        | 453.90                 | 7.053                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.033</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.033</b>                        |         |
| 19-Nov-05        | 453.90                 | 7.053                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20-Nov-05        | 453.90                 | 7.053                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21-Nov-05        | 453.90                 | 7.053                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22-Nov-05        | 453.90                 | 7.053                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23-Nov-05        | 453.90                 | 7.053                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24-Nov-05        | 453.90                 | 7.053                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25-Nov-05        | 454.00                 | 7.087                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.033</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.033</b>                        |         |
| 26-Nov-05        | 454.00                 | 7.087                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27-Nov-05        | 454.00                 | 7.087                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28-Nov-05        | 454.00                 | 7.087                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29-Nov-05        | 454.00                 | 7.087                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30-Nov-05        | 454.00                 | 7.087                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>01-Dec-05</b> | 454.10                 | 7.087                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 02-Dec-05        | 454.10                 | 7.087                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 03-Dec-05        | 454.10                 | 7.087                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 04-Dec-05        | 454.10                 | 7.087                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 05-Dec-05        | 454.20                 | 7.153                             | 0.067                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.067                               |         |
| 06-Dec-05        | 454.20                 | 7.153                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 07-Dec-05        | 454.20                 | 7.153                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 08-Dec-05        | 454.20                 | 7.153                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 09-Dec-05        | 454.20                 | 7.153                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.067</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.067</b>                        |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 10-Dec-05        | 454.30                 | 7.186                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 11-Dec-05        | 454.30                 | 7.186                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12-Dec-05        | 454.30                 | 7.186                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13-Dec-05        | 454.30                 | 7.186                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14-Dec-05        | 454.30                 | 7.186                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15-Dec-05        | 454.30                 | 7.186                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16-Dec-05        | 454.30                 | 7.186                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.033</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.033</b>                        |         |
| 17-Dec-05        | 454.50                 | 7.253                             | 0.067                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.067                               |         |
| 18-Dec-05        | 454.60                 | 7.286                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 19-Dec-05        | 454.70                 | 7.320                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 20-Dec-05        | 454.80                 | 7.353                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 21-Dec-05        | 454.90                 | 7.386                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 22-Dec-05        | 455.10                 | 7.453                             | 0.067                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.067                               |         |
| 23-Dec-05        | 455.20                 | 7.486                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.299</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.299</b>                        |         |
| 24-Dec-05        | 455.30                 | 7.486                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25-Dec-05        | 455.40                 | 7.552                             | 0.067                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.067                               |         |
| 26-Dec-05        | 455.50                 | 7.586                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 27-Dec-05        | 455.60                 | 7.619                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 28-Dec-05        | 455.70                 | 7.652                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 29-Dec-05        | 455.80                 | 7.686                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 30-Dec-05        | 455.90                 | 7.719                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 31-Dec-05        | 456.10                 | 7.785                             | 0.067                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.067                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.299</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.299</b>                        |         |
| <b>01-Jan-06</b> | 456.20                 | 7.827                             | 0.041                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.041                               |         |
| 02-Jan-06        | 456.30                 | 7.868                             | 0.041                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.041                               |         |
| 03-Jan-06        | 456.40                 | 7.868                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 04-Jan-06        | 456.50                 | 7.951                             | 0.083                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.206                               |         |
| 05-Jan-06        | 456.70                 | 8.034                             | 0.083                                 | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.391                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 06-Jan-06    | 456.50                 | 7.951                             | -0.083                                | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.226                               |         |
| 07-Jan-06    | 456.20                 | 7.827                             | -0.124                                | 125                   | 0.3085             | 350                     | 0.8638               |                            | 0.0000                  | 1.048                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.041</b>                          |                       | <b>1.049</b>       |                         | <b>0.864</b>         |                            | <b>0.000</b>            | <b>1.954</b>                        |         |
| 08-Jan-06    | 455.10                 | 7.453                             | -0.374                                | 200                   | 0.4936             | 350                     | 0.8638               |                            | 0.0000                  | 0.983                               |         |
| 09-Jan-06    | 454.10                 | 7.087                             | -0.366                                | 200                   | 0.4936             | 350                     | 0.8638               |                            | 0.0000                  | 0.991                               |         |
| 10-Jan-06    | 453.00                 | 6.721                             | -0.366                                | 200                   | 0.4936             | 350                     | 0.8638               |                            | 0.0000                  | 0.991                               |         |
| 11-Jan-06    | 451.70                 | 6.385                             | -0.336                                | 200                   | 0.4936             | 350                     | 0.8638               |                            | 0.0000                  | 1.022                               |         |
| 12-Jan-06    | 450.00                 | 5.917                             | -0.468                                | 200                   | 0.4936             | 350                     | 0.8638               |                            | 0.0000                  | 0.890                               |         |
| 13-Jan-06    | 448.70                 | 5.582                             | -0.335                                | 200                   | 0.4936             | 350                     | 0.8638               |                            | 0.0000                  | 1.022                               |         |
| 14-Jan-06    | 447.40                 | 5.235                             | -0.346                                | 200                   | 0.4936             | 350                     | 0.8638               |                            | 0.0000                  | 1.011                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-2.591</b>                         |                       | <b>3.455</b>       |                         | <b>6.046</b>         |                            | <b>0.000</b>            | <b>6.910</b>                        |         |
| 15-Jan-06    | 446.00                 | 4.915                             | -0.321                                | 200                   | 0.4936             | 350                     | 0.8638               |                            | 0.0000                  | 1.036                               |         |
| 16-Jan-06    | 444.80                 | 4.622                             | -0.292                                | 200                   | 0.4936             | 350                     | 0.8638               |                            | 0.0000                  | 1.065                               |         |
| 17-Jan-06    | 443.50                 | 4.306                             | -0.317                                | 200                   | 0.4936             | 350                     | 0.8638               |                            | 0.0000                  | 1.041                               |         |
| 18-Jan-06    | 441.80                 | 3.888                             | -0.418                                | 200                   | 0.4936             | 450                     | 1.1106               |                            | 0.0000                  | 1.186                               |         |
| 19-Jan-06    | 439.20                 | 3.251                             | -0.637                                | 200                   | 0.4936             | 350                     | 0.8638               |                            | 0.0000                  | 0.721                               |         |
| 20-Jan-06    | 435.50                 | 2.383                             | -0.868                                | 200                   | 0.4936             | 350                     | 0.8638               |                            | 0.0000                  | 0.489                               |         |
| 21-Jan-06    | 432.80                 | 1.758                             | -0.625                                | 125                   | 0.3085             | 100                     | 0.2468               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-3.477</b>                         |                       | <b>3.270</b>       |                         | <b>5.676</b>         |                            | <b>0.000</b>            | <b>5.538</b>                        |         |
| 22-Jan-06    | 430.00                 | 1.120                             | -0.638                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23-Jan-06    | 430.00                 | 1.120                             | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 24-Jan-06    | 430.00                 | 1.120                             | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 25-Jan-06    | 430.00                 | 1.120                             | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 26-Jan-06    | 430.00                 | 1.120                             | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 27-Jan-06    | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28-Jan-06    | 430.20                 | 1.166                             | 0.046                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.046                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-0.592</b>                         |                       | <b>1.234</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.033</b>                        |         |
| 29-Jan-06    | 430.40                 | 1.211                             | 0.046                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.046                               |         |
| 30-Jan-06    | 430.60                 | 1.234                             | 0.023                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.023                               |         |
| 31-Jan-06    | 430.80                 | 1.302                             | 0.068                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.068                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 01-Feb-06    | 431.10                 | 1.371                             | 0.068                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.068                               |         |
| 02-Feb-06    | 431.30                 | 1.416                             | 0.046                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.046                               |         |
| 03-Feb-06    | 431.50                 | 1.462                             | 0.046                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.046                               |         |
| 04-Feb-06    | 431.80                 | 1.508                             | 0.046                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.046                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.342</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.342</b>                        |         |
| 05-Feb-06    | 432.00                 | 1.576                             | 0.068                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.068                               |         |
| 06-Feb-06    | 432.20                 | 1.621                             | 0.046                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.046                               |         |
| 07-Feb-06    | 432.50                 | 1.690                             | 0.068                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.068                               |         |
| 08-Feb-06    | 432.70                 | 1.735                             | 0.046                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.046                               |         |
| 09-Feb-06    | 432.90                 | 1.758                             | 0.023                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.023                               |         |
| 10-Feb-06    | 433.20                 | 1.850                             | 0.092                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.092                               |         |
| 11-Feb-06    | 433.50                 | 1.919                             | 0.070                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.070                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.412</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.412</b>                        |         |
| 12-Feb-06    | 433.80                 | 1.989                             | 0.070                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.070                               |         |
| 13-Feb-06    | 434.00                 | 2.012                             | 0.023                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.023                               |         |
| 14-Feb-06    | 434.20                 | 2.081                             | 0.070                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.070                               |         |
| 15-Feb-06    | 434.40                 | 2.128                             | 0.046                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.046                               |         |
| 16-Feb-06    | 434.50                 | 2.151                             | 0.023                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.023                               |         |
| 17-Feb-06    | 434.60                 | 2.174                             | 0.023                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.023                               |         |
| 18-Feb-06    | 434.80                 | 2.221                             | 0.046                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.046                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.301</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.301</b>                        |         |
| 19-Feb-06    | 434.80                 | 2.221                             | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 20-Feb-06    | 434.40                 | 2.128                             | -0.093                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.154                               |         |
| 21-Feb-06    | 433.60                 | 1.942                             | -0.185                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.061                               |         |
| 22-Feb-06    | 432.80                 | 1.758                             | -0.184                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.063                               |         |
| 23-Feb-06    | 432.30                 | 1.644                             | -0.114                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.133                               |         |
| 24-Feb-06    | 431.60                 | 1.485                             | -0.160                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.087                               |         |
| 25-Feb-06    | 430.90                 | 1.325                             | -0.160                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.087                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-0.895</b>                         |                       | <b>1.728</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.832</b>                        |         |
| 26-Feb-06    | 430.20                 | 1.166                             | -0.160                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.087                               |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 27-Feb-06        | 430.00                 | 1.120                             | -0.046                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28-Feb-06        | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>01-Mar-06</b> | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 02-Mar-06        | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 03-Mar-06        | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 04-Mar-06        | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>-0.205</b>                         |                       | <b>0.247</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.087</b>                        |         |
| 05-Mar-06        | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 06-Mar-06        | 430.10                 | 1.143                             | 0.023                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.023                               |         |
| 07-Mar-06        | 430.10                 | 1.143                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 08-Mar-06        | 430.10                 | 1.143                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 09-Mar-06        | 430.10                 | 1.143                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10-Mar-06        | 430.10                 | 1.143                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11-Mar-06        | 430.40                 | 1.211                             | 0.068                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.068                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.091</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.091</b>                        |         |
| 12-Mar-06        | 430.40                 | 1.211                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13-Mar-06        | 430.40                 | 1.211                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14-Mar-06        | 430.40                 | 1.211                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15-Mar-06        | 430.40                 | 1.211                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16-Mar-06        | 430.70                 | 1.280                             | 0.068                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.068                               |         |
| 17-Mar-06        | 430.80                 | 1.302                             | 0.023                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.023                               |         |
| 18-Mar-06        | 430.80                 | 1.302                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.091</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.091</b>                        |         |
| 19-Mar-06        | 430.80                 | 1.302                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20-Mar-06        | 430.90                 | 1.325                             | 0.023                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.023                               |         |
| 21-Mar-06        | 430.90                 | 1.325                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22-Mar-06        | 430.90                 | 1.325                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23-Mar-06        | 430.90                 | 1.325                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24-Mar-06        | 430.90                 | 1.325                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25-Mar-06        | 430.90                 | 1.325                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.023</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.023</b>                        |         |
| 26-Mar-06        | 431.00                 | 1.348                             | 0.023                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.023                               |         |
| 27-Mar-06        | 431.00                 | 1.348                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28-Mar-06        | 431.00                 | 1.348                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29-Mar-06        | 431.00                 | 1.348                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30-Mar-06        | 431.00                 | 1.348                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31-Mar-06        | 431.00                 | 1.348                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>01-Apr-06</b> | 431.00                 | 1.348                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.023</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.023</b>                        |         |
| 02-Apr-06        | 431.10                 | 1.371                             | 0.023                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.023                               |         |
| 03-Apr-06        | 431.20                 | 1.394                             | 0.023                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.023                               |         |
| 04-Apr-06        | 431.50                 | 1.462                             | 0.068                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.068                               |         |
| 05-Apr-06        | 431.60                 | 1.485                             | 0.023                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.023                               |         |
| 06-Apr-06        | 431.60                 | 1.485                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 07-Apr-06        | 431.60                 | 1.485                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 08-Apr-06        | 431.60                 | 1.485                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.137</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.137</b>                        |         |
| 09-Apr-06        | 432.20                 | 1.621                             | 0.137                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.137                               |         |
| 10-Apr-06        | 432.40                 | 1.667                             | 0.046                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.046                               |         |
| 11-Apr-06        | 432.50                 | 1.690                             | 0.023                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.023                               |         |
| 12-Apr-06        | 432.50                 | 1.690                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13-Apr-06        | 432.60                 | 1.713                             | 0.023                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.023                               |         |
| 14-Apr-06        | 432.70                 | 1.735                             | 0.023                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.023                               |         |
| 15-Apr-06        | 432.70                 | 1.735                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.251</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.251</b>                        |         |
| 16-Apr-06        | 433.10                 | 1.827                             | 0.091                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.091                               |         |
| 17-Apr-06        | 435.20                 | 2.313                             | 0.487                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.487                               |         |
| 18-Apr-06        | 438.40                 | 3.063                             | 0.749                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.749                               |         |
| 19-Apr-06        | 438.60                 | 3.110                             | 0.047                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.047                               |         |
| 20-Apr-06        | 438.70                 | 3.133                             | 0.024                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.024                               |         |



| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 21-Apr-06        | 438.70                 | 3.133                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22-Apr-06        | 438.80                 | 3.157                             | 0.024                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.024                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>1.422</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.422</b>                        |         |
| 23-Apr-06        | 438.90                 | 3.181                             | 0.024                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.024                               |         |
| 24-Apr-06        | 440.30                 | 3.517                             | 0.337                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.337                               |         |
| 25-Apr-06        | 440.50                 | 3.567                             | 0.049                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.049                               |         |
| 26-Apr-06        | 440.70                 | 3.591                             | 0.025                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.025                               |         |
| 27-Apr-06        | 442.80                 | 4.135                             | 0.544                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.544                               |         |
| 28-Apr-06        | 443.50                 | 4.306                             | 0.171                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.171                               |         |
| 29-Apr-06        | 445.70                 | 4.842                             | 0.536                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.536                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>1.685</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.685</b>                        |         |
| 30-Apr-06        | 445.70                 | 4.842                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>01-May-06</b> | 446.00                 | 4.915                             | 0.073                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.073                               |         |
| 02-May-06        | 446.10                 | 4.939                             | 0.024                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.024                               |         |
| 03-May-06        | 446.20                 | 4.963                             | 0.024                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.024                               |         |
| 04-May-06        | 446.30                 | 4.963                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 05-May-06        | 446.40                 | 5.013                             | 0.049                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.049                               |         |
| 06-May-06        | 447.10                 | 5.186                             | 0.173                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.173                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.344</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.344</b>                        |         |
| 07-May-06        | 447.50                 | 5.285                             | 0.099                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.099                               |         |
| 08-May-06        | 447.90                 | 5.384                             | 0.099                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.099                               |         |
| 09-May-06        | 448.90                 | 5.631                             | 0.247                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 10-May-06        | 449.20                 | 5.706                             | 0.074                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.074                               |         |
| 11-May-06        | 449.30                 | 5.730                             | 0.025                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.025                               |         |
| 12-May-06        | 449.70                 | 5.807                             | 0.077                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.077                               |         |
| 13-May-06        | 450.10                 | 5.945                             | 0.138                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.138                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.759</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.759</b>                        |         |
| 14-May-06        | 450.80                 | 6.110                             | 0.165                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.165                               |         |
| 15-May-06        | 451.30                 | 6.275                             | 0.165                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.165                               |         |
| 16-May-06        | 451.40                 | 6.302                             | 0.028                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.028                               |         |

| Date             | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                  |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 17-May-06        | 451.40                 | 6.302                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18-May-06        | 451.50                 | 6.330                             | 0.028                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.028                               |         |
| 19-May-06        | 451.50                 | 6.330                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20-May-06        | 453.50                 | 6.920                             | 0.590                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.590                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>0.975</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.975</b>                        |         |
| 21-May-06        | 453.90                 | 7.053                             | 0.133                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.133                               |         |
| 22-May-06        | 455.00                 | 7.419                             | 0.366                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.366                               |         |
| 23-May-06        | 455.20                 | 7.486                             | 0.067                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.067                               |         |
| 24-May-06        | 457.20                 | 8.241                             | 0.755                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.755                               |         |
| 25-May-06        | 457.70                 | 8.448                             | 0.207                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.207                               |         |
| 26-May-06        | 458.20                 | 8.656                             | 0.207                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.207                               |         |
| 27-May-06        | 458.70                 | 8.821                             | 0.166                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.166                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>1.901</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.901</b>                        |         |
| 28-May-06        | 465.10                 | 12.139                            | 3.317                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 3.317                               |         |
| 29-May-06        | 466.00                 | 12.666                            | 0.527                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.527                               |         |
| 30-May-06        | 466.50                 | 13.005                            | 0.339                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.339                               |         |
| 31-May-06        | 466.80                 | 13.208                            | 0.203                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.203                               |         |
| <b>01-Jun-06</b> | 466.90                 | 13.276                            | 0.068                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.068                               |         |
| 02-Jun-06        | 468.00                 | 14.021                            | 0.745                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.745                               |         |
| 03-Jun-06        | 470.10                 | 15.547                            | 1.526                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.526                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>6.726</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>6.726</b>                        |         |
| 04-Jun-06        | 472.80                 | 17.733                            | 2.186                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.186                               |         |
| 05-Jun-06        | 477.90                 | 22.802                            | 5.069                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 5.069                               |         |
| 06-Jun-06        | 480.40                 | 25.650                            | 2.848                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.848                               |         |
| 07-Jun-06        | 492.00                 | 42.675                            | 17.024                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 17.024                              |         |
| 08-Jun-06        | 494.10                 | 46.941                            | 4.267                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 4.267                               |         |
| 09-Jun-06        | 495.00                 | 48.718                            | 1.777                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.777                               |         |
| 10-Jun-06        | 495.50                 | 49.720                            | 1.002                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.002                               |         |
| <b>TOTAL</b>     |                        |                                   | <b>34.173</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>34.173</b>                       |         |
| 11-Jun-06        | 495.60                 | 49.932                            | 0.212                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.212                               |         |

| Date          | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|---------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|               |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 12-Jun-06     | 496.30                 | 51.416                            | 1.484                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.484                               |         |
| 13-Jun-06     | 497.00                 | 52.900                            | 1.484                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.484                               |         |
| 14-Jun-06     | 497.00                 | 52.900                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15-Jun-06     | 497.00                 | 52.900                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16-Jun-06     | 497.00                 | 52.900                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17-Jun-06     | 497.00                 | 52.900                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>3.180</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>3.180</b>                        |         |
| 18-Jun-06     | 497.00                 | 52.900                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19-Jun-06     | 497.00                 | 52.900                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20-Jun-06     | 497.00                 | 52.900                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21-Jun-06     | 497.00                 | 52.900                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22-Jun-06     | 497.20                 | 53.324                            | 0.424                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.424                               |         |
| 23-Jun-06     | 497.30                 | 53.536                            | 0.212                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.212                               |         |
| 24-Jun-06     | 497.30                 | 53.536                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.636</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.636</b>                        |         |
| 25-Jun-06     | 497.40                 | 53.748                            | 0.212                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.212                               |         |
| 26-Jun-06     | 497.40                 | 53.748                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27-Jun-06     | 497.40                 | 53.748                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28-Jun-06     | 498.40                 | 55.868                            | 2.120                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.120                               |         |
| 29-Jun-06     | 499.00                 | 58.233                            | 2.365                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.365                               |         |
| 30-Jun-06     | 499.40                 | 60.539                            | 2.305                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.305                               |         |
| <b>1.7.06</b> | 499.60                 | 61.691                            | 1.153                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.153                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>8.156</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>8.156</b>                        |         |
| 2.7.06        | 499.70                 | 62.268                            | 0.576                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.576                               |         |
| 3.7.06        | 499.80                 | 62.844                            | 0.576                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.576                               |         |
| 4.7.06        | 499.90                 | 62.844                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5.7.06        | 499.90                 | 62.844                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6.7.06        | 499.90                 | 62.844                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7.7.06        | 499.90                 | 62.844                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8.7.06        | 499.90                 | 62.844                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date          | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|---------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|               |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b>  |                        |                                   | <b>1.153</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.153</b>                        |         |
| 9.7.06        | 500.00                 | 63.997                            | 1.153                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.153                               |         |
| 10.7.06       | 500.70                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 11.7.06       | 504.26                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 21577                      | 53.2498                 | 53.250                              |         |
| 12.7.06       | 504.07                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 10000                      | 24.6790                 | 24.679                              |         |
| 13.7.06       | 501.31                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 4260                       | 10.5132                 | 10.513                              |         |
| 14.7.06       | 500.70                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1388                       | 3.4254                  | 3.425                               |         |
| 15.7.06       | 500.50                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 694                        | 1.7127                  | 1.713                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>1.153</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>94.007</b>           | <b>95.160</b>                       |         |
| 16.7.06       | 500.45                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 694                        | 1.7127                  | 1.713                               |         |
| 17.7.06       | 500.25                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 308                        | 0.7601                  | 0.760                               |         |
| 18.7.06       | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 19.7.06       | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 20.7.06       | 500.70                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 694                        | 1.7127                  | 1.713                               |         |
| 21.7.06       | 500.65                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 0                          | 0.0000                  | 0.000                               |         |
| 22.7.06       | 500.45                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 694                        | 1.7127                  | 1.713                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>6.752</b>            | <b>6.752</b>                        |         |
| 23.7.06       | 500.35                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498                        | 1.2290                  | 1.229                               |         |
| 24.7.06       | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 308                        | 0.7601                  | 0.760                               |         |
| 25.7.06       | 500.50                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 694                        | 1.7127                  | 1.713                               |         |
| 26.7.06       | 500.65                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1137                       | 2.8060                  | 2.806                               |         |
| 27.7.06       | 500.55                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 906                        | 2.2359                  | 2.236                               |         |
| 28.7.06       | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498                        | 1.2290                  | 1.229                               |         |
| 29.7.06       | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 308                        | 0.7601                  | 0.760                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>10.733</b>           | <b>10.733</b>                       |         |
| 30.7.06       | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 308                        | 0.7601                  | 0.760                               |         |
| 31.7.06       | 500.70                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1137                       | 2.8060                  | 2.806                               |         |
| <b>1.8.06</b> | 500.60                 | 63.997                            | 0.000                                 |                       | 0.0000             | 25                      | 0.0617               | 906                        | 2.2359                  | 2.298                               |         |
| 2.8.06        | 500.65                 | 63.997                            | 0.000                                 |                       | 0.0000             | 25                      | 0.0617               | 906                        | 2.2359                  | 2.298                               |         |
| 3.8.06        | 500.55                 | 63.997                            | 0.000                                 |                       | 0.0000             | 25                      | 0.0617               | 906                        | 2.2359                  | 2.298                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 4.8.06       | 500.55                 | 63.997                            | 0.000                                 |                       | 0.0000             | 10                      | 0.0247               | 694                        | 1.7127                  | 1.737                               |         |
| 5.8.06       | 500.35                 | 63.997                            | 0.000                                 |                       | 0.0000             | 10                      | 0.0247               | 498                        | 1.2290                  | 1.254                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.234</b>         |                            | <b>13.216</b>           | <b>13.450</b>                       |         |
| 6.8.06       | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             | 10                      | 0.0247               | 308                        | 0.7601                  | 0.785                               |         |
| 7.8.06       | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             | 10                      | 0.0247               | 308                        | 0.7601                  | 0.785                               |         |
| 8.8.06       | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             | 10                      | 0.0247               | 308                        | 0.7601                  | 0.785                               |         |
| 9.8.06       | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             | 10                      | 0.0247               | 308                        | 0.7601                  | 0.785                               |         |
| 10.8.06      | 500.35                 | 63.997                            | 0.000                                 |                       | 0.0000             | 10                      | 0.0247               | 308                        | 0.7601                  | 0.785                               |         |
| 11.8.06      | 500.85                 | 63.997                            | 0.000                                 |                       | 0.0000             | 10                      | 0.0247               | 1646                       | 4.0622                  | 4.087                               |         |
| 12.8.06      | 500.70                 | 63.997                            | 0.000                                 |                       | 0.0000             | 5                       | 0.0123               | 1388                       | 3.4254                  | 3.438                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.160</b>         |                            | <b>11.288</b>           | <b>11.449</b>                       |         |
| 13.8.06      | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             | 5                       | 0.0123               | 498                        | 1.2290                  | 1.241                               |         |
| 14.8.06      | 500.35                 | 63.997                            | 0.000                                 |                       | 0.0000             | 5                       | 0.0123               | 498                        | 1.2290                  | 1.241                               |         |
| 15.8.06      | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             | 5                       | 0.0123               | 308                        | 0.7601                  | 0.772                               |         |
| 16.8.06      | 500.35                 | 63.997                            | 0.000                                 |                       | 0.0000             | 5                       | 0.0123               | 498                        | 1.2290                  | 1.241                               |         |
| 17.8.06      | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             | 5                       | 0.0123               | 308                        | 0.7601                  | 0.772                               |         |
| 18.8.06      | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             | 5                       | 0.0123               | 308                        | 0.7601                  | 0.772                               |         |
| 19.8.06      | 500.30                 | 63.997                            | 0.000                                 | 5                     | 0.0123             |                         | 0.0000               | 308                        | 0.7601                  | 0.772                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.012</b>       |                         | <b>0.074</b>         |                            | <b>6.727</b>            | <b>6.814</b>                        |         |
| 20.8.06      | 500.30                 | 63.997                            | 0.000                                 | 5                     | 0.0123             |                         | 0.0000               | 308                        | 0.7601                  | 0.772                               |         |
| 21.8.06      | 500.40                 | 63.997                            | 0.000                                 | 5                     | 0.0123             |                         | 0.0000               | 498                        | 1.2290                  | 1.241                               |         |
| 22.8.06      | 500.70                 | 63.997                            | 0.000                                 | 5                     | 0.0123             | 300                     | 0.7404               | 1388                       | 3.4254                  | 4.178                               |         |
| 23.8.06      | 500.65                 | 63.997                            | 0.000                                 | 5                     | 0.0123             |                         | 0.0000               | 1137                       | 2.8060                  | 2.818                               |         |
| 24.8.06      | 500.70                 | 63.997                            | 0.000                                 | 5                     | 0.0123             |                         | 0.0000               | 1137                       | 2.8060                  | 2.818                               |         |
| 25.8.06      | 500.60                 | 63.997                            | 0.000                                 | 5                     | 0.0123             |                         | 0.0000               | 906                        | 2.2359                  | 2.248                               |         |
| 26.8.06      | 500.40                 | 63.997                            | 0.000                                 | 5                     | 0.0123             |                         | 0.0000               | 498                        | 1.2290                  | 1.241                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.086</b>       |                         | <b>0.740</b>         |                            | <b>14.491</b>           | <b>15.318</b>                       |         |
| 27.8.06      | 502.15                 | 63.997                            | 0.000                                 | 5                     | 0.0123             |                         | 0.0000               | 6237                       | 15.3923                 | 15.405                              |         |
| 28.8.06      | 501.25                 | 63.997                            | 0.000                                 | 5                     | 0.0123             |                         | 0.0000               | 3527                       | 8.7043                  | 8.717                               |         |
| 29.8.06      | 500.85                 | 63.997                            | 0.000                                 | 5                     | 0.0123             |                         | 0.0000               | 1648                       | 4.0671                  | 4.079                               |         |

| Date          | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|---------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|               |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 30.8.06       | 500.75                 | 63.997                            | 0.000                                 | 5                     | 0.0123             |                         | 0.0000               | 1388                       | 3.4254                  | 3.438                               |         |
| 31.8.06       | 500.55                 | 63.997                            | 0.000                                 | 5                     | 0.0123             |                         | 0.0000               | 906                        | 2.2359                  | 2.248                               |         |
| <b>1.9.06</b> | 500.45                 | 63.997                            | 0.000                                 | 5                     | 0.0123             |                         | 0.0000               | 694                        | 1.7127                  | 1.725                               |         |
| 2.9.06        | 500.30                 | 63.997                            | 0.000                                 | 5                     | 0.0123             |                         | 0.0000               | 308                        | 0.7601                  | 0.772                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.000</b>                          |                       | <b>0.086</b>       |                         | <b>0.000</b>         |                            | <b>36.298</b>           | <b>36.384</b>                       |         |
| 3.9.06        | 500.20                 | 63.997                            | 0.000                                 | 5                     | 0.0123             | 173                     | 0.4269               | 173                        | 0.4269                  | 0.866                               |         |
| 4.9.06        | 500.30                 | 63.997                            | 0.000                                 | 5                     | 0.0123             | 308                     | 0.7601               | 308                        | 0.7601                  | 1.533                               |         |
| 5.9.06        | 500.25                 | 63.997                            | 0.000                                 | 5                     | 0.0123             | 305                     | 0.7527               | 305                        | 0.7527                  | 1.518                               |         |
| 6.9.06        | 500.20                 | 63.997                            | 0.000                                 | 5                     | 0.0123             | 173                     | 0.4269               | 173                        | 0.4269                  | 0.866                               |         |
| 7.9.06        | 500.10                 | 63.997                            | 0.000                                 | 5                     | 0.0123             | 64.3                    | 0.1587               | 64.3                       | 0.1587                  | 0.330                               |         |
| 8.9.06        | 499.80                 | 62.844                            | -1.153                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9.9.06        | 499.60                 | 61.691                            | -1.153                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-2.306</b>                         |                       | <b>0.555</b>       |                         | <b>2.525</b>         |                            | <b>2.525</b>            | <b>5.112</b>                        |         |
| 10.9.06       | 499.40                 | 60.539                            | -1.153                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11.9.06       | 499.00                 | 58.233                            | -2.305                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12.9.06       | 498.40                 | 55.868                            | -2.365                                | 130                   | 0.3208             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13.9.06       | 497.55                 | 53.960                            | -1.908                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14.9.06       | 497.40                 | 53.748                            | -0.212                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.220                               |         |
| 15.9.06       | 496.90                 | 52.688                            | -1.060                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16.9.06       | 496.40                 | 51.628                            | -1.060                                | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 1.840                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-10.064</b>                        |                       | <b>2.480</b>       |                         | <b>2.468</b>         |                            | <b>0.000</b>            | <b>2.060</b>                        |         |
| 17.9.06       | 495.80                 | 50.356                            | -1.272                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.689                               |         |
| 18.9.06       | 495.10                 | 48.915                            | -1.440                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.521                               |         |
| 19.9.06       | 494.10                 | 46.941                            | -1.974                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 0.987                               |         |
| 20.9.06       | 493.20                 | 45.165                            | -1.777                                | 225                   | 0.5553             | 1000                    | 2.4679               |                            | 0.0000                  | 1.246                               |         |
| 21.9.06       | 493.67                 | 45.954                            | 0.790                                 | 225                   | 0.5553             | 1000                    | 2.4679               |                            | 0.0000                  | 3.813                               |         |
| 22.9.06       | 555.88                 | 63.997                            | 18.043                                |                       | 0.0000             |                         | 0.0000               | 26870                      | 66.3124                 | 84.355                              |         |
| 23.9.06       | 506.44                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 15453                      | 38.1364                 | 38.136                              |         |
| <b>TOTAL</b>  |                        |                                   | <b>12.369</b>                         |                       | <b>2.591</b>       |                         | <b>12.339</b>        |                            | <b>104.449</b>          | <b>131.749</b>                      |         |

| Date           | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 24.9.06        | 503.49                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 16596                      | 40.9572                 | 40.957                              |         |
| 25.9.06        | 504.63                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 31155                      | 76.8873                 | 76.887                              |         |
| 26.9.06        | 501.61                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 5450                       | 13.4500                 | 13.450                              |         |
| 27.9.06        | 501.02                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 2216                       | 5.4689                  | 5.469                               |         |
| 28.9.06        | 500.80                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1388                       | 3.4254                  | 3.425                               |         |
| 29.9.06        | 500.70                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1137                       | 2.8060                  | 2.806                               |         |
| 30.9.06        | 500.45                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 694                        | 1.7127                  | 1.713                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>144.708</b>          | <b>144.708</b>                      |         |
| <b>1.10.06</b> | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498                        | 1.2290                  | 1.229                               |         |
| 2.10.06        | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 498                        | 1.2290                  | 1.229                               |         |
| 3.10.06        | 500.40                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 498                        | 1.2290                  | 1.476                               |         |
| 4.10.06        | 500.30                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 308                        | 0.7601                  | 1.007                               |         |
| 5.10.06        | 500.30                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 308                        | 0.7601                  | 1.130                               |         |
| 6.10.06        | 500.20                 | 63.997                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               | 173                        | 0.4269                  | 0.921                               |         |
| 7.10.06        | 500.20                 | 63.997                            | 0.000                                 | 225                   | 0.5553             |                         | 0.0000               | 173                        | 0.4269                  | 0.982                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>0.000</b>                          |                       | <b>1.913</b>       |                         | <b>0.000</b>         |                            | <b>6.061</b>            | <b>7.974</b>                        |         |
| 8.10.06        | 500.20                 | 63.997                            | 0.000                                 | 225                   | 0.5553             |                         | 0.0000               | 173                        | 0.4269                  | 0.982                               |         |
| 9.10.06        | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 10.10.06       | 500.20                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 173                        | 0.4269                  | 0.427                               |         |
| 11.10.06       | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 308                        | 0.7601                  | 0.760                               |         |
| 12.10.06       | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             | 700                     | 1.7275               | 308                        | 0.7601                  | 2.488                               |         |
| 13.10.06       | 500.00                 | 63.997                            | 0.000                                 |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 2.468                               |         |
| 14.10.06       | 499.90                 | 62.844                            | -1.153                                |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 1.315                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-1.153</b>                         |                       | <b>0.555</b>       |                         | <b>6.663</b>         |                            | <b>2.801</b>            | <b>8.867</b>                        |         |
| 15.10.06       | 499.60                 | 61.691                            | -1.153                                |                       | 0.0000             | 1000                    | 2.4679               |                            | 0.0000                  | 1.315                               |         |
| 16.10.06       | 499.00                 | 58.233                            | -3.458                                | 5                     | 0.0123             | 1000                    | 2.4679               |                            | 0.0000                  | 0.000                               |         |
| 17.10.06       | 498.20                 | 55.444                            | -2.789                                | 5                     | 0.0123             | 1000                    | 2.4679               |                            | 0.0000                  | 0.000                               |         |
| 18.10.06       | 497.70                 | 54.384                            | -1.060                                | 5                     | 0.0123             | 1000                    | 2.4679               |                            | 0.0000                  | 1.420                               |         |
| 19.10.06       | 497.20                 | 53.324                            | -1.060                                | 5                     | 0.0123             | 1000                    | 2.4679               |                            | 0.0000                  | 1.420                               |         |

| Date           | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 20.10.06       | 496.60                 | 52.052                            | -1.272                                | 5                     | 0.0123             | 1000                    | 2.4679               |                            | 0.0000                  | 1.208                               |         |
| 21.10.06       | 496.10                 | 50.992                            | -1.060                                | 100                   | 0.2468             | 1000                    | 2.4679               |                            | 0.0000                  | 1.655                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-11.852</b>                        |                       | <b>0.308</b>       |                         | <b>17.275</b>        |                            | <b>0.000</b>            | <b>7.018</b>                        |         |
| 22.10.06       | 495.80                 | 50.356                            | -0.636                                | 100                   | 0.2468             | 1000                    | 2.4679               |                            | 0.0000                  | 2.079                               |         |
| 23.10.06       | 495.00                 | 48.718                            | -1.638                                | 150                   | 0.3702             | 1200                    | 2.9615               |                            | 0.0000                  | 1.694                               |         |
| 24.10.06       | 493.90                 | 46.546                            | -2.172                                | 150                   | 0.3702             | 1000                    | 2.4679               |                            | 0.0000                  | 0.667                               |         |
| 25.10.06       | 493.70                 | 46.152                            | -0.395                                | 150                   | 0.3702             | 1200                    | 2.9615               |                            | 0.0000                  | 2.937                               |         |
| 26.10.06       | 493.10                 | 44.770                            | -1.382                                | 150                   | 0.3702             | 1200                    | 2.9615               |                            | 0.0000                  | 1.950                               |         |
| 27.10.06       | 492.20                 | 43.190                            | -1.579                                | 175                   | 0.4319             | 1200                    | 2.9615               |                            | 0.0000                  | 1.814                               |         |
| 28.10.06       | 491.20                 | 41.471                            | -1.720                                | 175                   | 0.4319             | 1200                    | 2.9615               |                            | 0.0000                  | 1.674                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-9.521</b>                         |                       | <b>2.591</b>       |                         | <b>19.743</b>        |                            | <b>0.000</b>            | <b>12.813</b>                       |         |
| 29.10.06       | 489.80                 | 38.891                            | -2.580                                | 175                   | 0.4319             | 1200                    | <b>2.9615</b>        |                            | 0.0000                  | 0.814                               |         |
| 30.10.06       | 489.20                 | 38.031                            | -0.860                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 2.595                               |         |
| 31.10.06       | 488.20                 | 36.439                            | -1.592                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 1.863                               |         |
| <b>1.11.06</b> | 487.00                 | 34.595                            | -1.844                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 1.611                               |         |
| 2.11.06        | 485.30                 | 31.898                            | -2.697                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 0.758                               |         |
| 3.11.06        | 484.10                 | 30.396                            | -1.502                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 1.953                               |         |
| 4.11.06        | 482.70                 | 28.485                            | -1.911                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 1.544                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-12.985</b>                        |                       | <b>3.393</b>       |                         | <b>20.730</b>        |                            | <b>0.000</b>            | <b>11.138</b>                       |         |
| 5.11.06        | 481.00                 | 26.373                            | -2.112                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 1.343                               |         |
| 6.11.06        | 479.90                 | 25.048                            | -1.325                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 2.130                               |         |
| 7.11.06        | 478.70                 | 23.647                            | -1.401                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 2.054                               |         |
| 8.11.06        | 478.00                 | 22.908                            | -0.739                                | 800                   | 1.9743             | 800                     | 1.9743               |                            | 0.0000                  | 3.210                               |         |
| 9.11.06        | 476.80                 | 21.641                            | -1.267                                | 800                   | 1.9743             | 800                     | 1.9743               |                            | 0.0000                  | 2.682                               |         |
| 10.11.06       | 475.70                 | 20.479                            | -1.161                                | 400                   | 0.9872             | 400                     | 0.9872               |                            | 0.0000                  | 0.813                               |         |
| 11.11.06       | 475.10                 | 19.911                            | -0.568                                | 400                   | 0.9872             | 400                     | 0.9872               |                            | 0.0000                  | 1.406                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-8.574</b>                         |                       | <b>7.404</b>       |                         | <b>14.807</b>        |                            | <b>0.000</b>            | <b>13.637</b>                       |         |
| 12.11.06       | 476.00                 | 20.796                            | 0.885                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.885                               |         |
| 13.11.06       | 476.50                 | 21.324                            | 0.528                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.528                               |         |



| Date           | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 14.11.06       | 476.60                 | 21.429                            | 0.106                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.106                               |         |
| 15.11.06       | 476.60                 | 21.429                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16.11.06       | 476.70                 | 21.535                            | 0.106                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.106                               |         |
| 17.11.06       | 476.70                 | 21.535                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18.11.06       | 476.80                 | 21.641                            | 0.106                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.106                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>1.730</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.730</b>                        |         |
| 19.11.06       | 476.80                 | 21.641                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20.11.06       | 476.80                 | 21.641                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21.11.06       | 476.90                 | 21.746                            | 0.106                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.106                               |         |
| 22.11.06       | 477.00                 | 21.852                            | 0.106                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.106                               |         |
| 23.11.06       | 477.10                 | 21.957                            | 0.106                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.106                               |         |
| 24.11.06       | 477.20                 | 22.063                            | 0.106                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.106                               |         |
| 25.11.06       | 477.30                 | 22.168                            | 0.106                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.106                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>0.528</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.528</b>                        |         |
| 26.11.06       | 477.40                 | 22.168                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27.11.06       | 477.50                 | 22.380                            | 0.211                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.273                               |         |
| 28.11.06       | 477.70                 | 22.591                            | 0.211                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.273                               |         |
| 29.11.06       | 477.90                 | 22.802                            | 0.211                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.273                               |         |
| 30.11.06       | 478.00                 | 22.908                            | 0.106                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.167                               |         |
| <b>1.12.06</b> | 478.10                 | 23.013                            | 0.106                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.167                               |         |
| 2.12.06        | 478.20                 | 23.119                            | 0.106                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.167                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>0.950</b>                          |                       | <b>0.370</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.320</b>                        |         |
| 3.12.06        | 478.40                 | 23.330                            | 0.211                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.273                               |         |
| 4.12.06        | 478.50                 | 23.435                            | 0.106                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.167                               |         |
| 5.12.06        | 478.60                 | 23.435                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 6.12.06        | 478.70                 | 23.647                            | 0.211                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.273                               |         |
| 7.12.06        | 478.80                 | 23.752                            | 0.106                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.167                               |         |
| 8.12.06        | 478.90                 | 23.858                            | 0.106                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.167                               |         |
| 9.12.06        | 479.00                 | 23.963                            | 0.106                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.167                               |         |

| Date          | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|---------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|               |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.845</b>                          |                       | <b>0.432</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.277</b>                        |         |
| 10.12.06      | 479.10                 | 24.084                            | 0.120                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.182                               |         |
| 11.12.06      | 479.20                 | 24.204                            | 0.120                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.182                               |         |
| 12.12.06      | 479.30                 | 24.325                            | 0.120                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.182                               |         |
| 13.12.06      | 479.40                 | 24.445                            | 0.120                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.182                               |         |
| 14.12.06      | 479.50                 | 24.566                            | 0.120                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.182                               |         |
| 15.12.06      | 479.60                 | 24.686                            | 0.120                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.182                               |         |
| 16.12.06      | 479.70                 | 24.686                            | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.723</b>                          |                       | <b>0.432</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.155</b>                        |         |
| 17.12.06      | 479.80                 | 24.927                            | 0.241                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.303                               |         |
| 18.12.06      | 479.90                 | 25.048                            | 0.120                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.182                               |         |
| 19.12.06      | 480.00                 | 25.168                            | 0.120                                 | 75                    | 0.1851             |                         | 0.0000               |                            | 0.0000                  | 0.306                               |         |
| 20.12.06      | 479.90                 | 25.048                            | -0.120                                | 75                    | 0.1851             |                         | 0.0000               |                            | 0.0000                  | 0.065                               |         |
| 21.12.06      | 479.90                 | 25.048                            | 0.000                                 | 75                    | 0.1851             |                         | 0.0000               |                            | 0.0000                  | 0.185                               |         |
| 22.12.06      | 479.90                 | 25.048                            | 0.000                                 | 75                    | 0.1851             |                         | 0.0000               |                            | 0.0000                  | 0.185                               |         |
| 23.12.06      | 479.80                 | 24.927                            | -0.120                                | 75                    | 0.1851             |                         | 0.0000               |                            | 0.0000                  | 0.065                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.241</b>                          |                       | <b>1.049</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.290</b>                        |         |
| 24.12.06      | 479.80                 | 24.927                            | 0.000                                 | 75                    | 0.1851             |                         | 0.0000               |                            | 0.0000                  | 0.185                               |         |
| 25.12.06      | 479.70                 | 24.686                            | -0.241                                | 75                    | 0.1851             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26.12.06      | 479.70                 | 24.686                            | 0.000                                 | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 1.481                               |         |
| 27.12.06      | 479.50                 | 24.566                            | -0.120                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 1.360                               |         |
| 28.12.06      | 479.20                 | 24.204                            | -0.361                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 1.119                               |         |
| 29.12.06      | 478.40                 | 23.330                            | -0.874                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.606                               |         |
| 30.12.06      | 477.80                 | 22.696                            | -0.634                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.847                               |         |
| 31.12.06      | 477.00                 | 21.852                            | -0.845                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.636                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-3.076</b>                         |                       | <b>1.851</b>       |                         | <b>7.404</b>         |                            | <b>0.000</b>            | <b>6.235</b>                        |         |
| <b>1.1.07</b> | 476.10                 | 20.901                            | -0.950                                | 100                   | 0.2468             | 250                     | 0.6170               |                            | 0.0000                  | 0.000                               |         |
| 2.1.07        | 475.10                 | 19.911                            | -0.991                                | 100                   | 0.2468             | 250                     | 0.6170               |                            | 0.0000                  | 0.000                               |         |
| 3.1.07        | 474.60                 | 19.437                            | -0.474                                | 100                   | 0.2468             | 250                     | 0.6170               |                            | 0.0000                  | 0.390                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 4.1.07       | 473.90                 | 18.774                            | -0.663                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.818                               |         |
| 5.1.07       | 473.20                 | 18.111                            | -0.663                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.818                               |         |
| 6.1.07       | 472.30                 | 17.290                            | -0.821                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.659                               |         |
| 7.1.07       | 471.40                 | 16.577                            | -0.713                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.768                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-5.275</b>                         |                       | <b>1.728</b>       |                         | <b>6.787</b>         |                            | <b>0.000</b>            | <b>3.453</b>                        |         |
| 8.1.07       | 470.80                 | 16.102                            | -0.475                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 1.005                               |         |
| 9.1.07       | 470.00                 | 15.468                            | -0.634                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.847                               |         |
| 10.1.07      | 469.20                 | 14.834                            | -0.634                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.847                               |         |
| 11.1.07      | 468.30                 | 14.224                            | -0.610                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.871                               |         |
| 12.1.07      | 467.60                 | 13.750                            | -0.474                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 1.006                               |         |
| 13.1.07      | 466.90                 | 13.276                            | -0.474                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 1.006                               |         |
| 14.1.07      | 465.90                 | 12.598                            | -0.678                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.803                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-3.979</b>                         |                       | <b>1.728</b>       |                         | <b>8.638</b>         |                            | <b>0.000</b>            | <b>6.386</b>                        |         |
| 15.1.07      | 464.70                 | 11.909                            | -0.689                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.792                               |         |
| 16.1.07      | 463.50                 | 11.220                            | -0.689                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.792                               |         |
| 17.1.07      | 462.40                 | 10.607                            | -0.613                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 0.867                               |         |
| 18.1.07      | 462.00                 | 10.414                            | -0.193                                | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 0.424                               |         |
| 19.1.07      | 461.00                 | 9.931                             | -0.482                                | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 0.135                               |         |
| 20.1.07      | 460.70                 | 9.787                             | -0.145                                | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 0.472                               |         |
| 21.1.07      | 460.30                 | 9.594                             | -0.193                                | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 0.424                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-3.004</b>                         |                       | <b>1.234</b>       |                         | <b>5.676</b>         |                            | <b>0.000</b>            | <b>3.906</b>                        |         |
| 22.1.07      | 459.60                 | 9.256                             | -0.338                                | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 0.279                               |         |
| 23.1.07      | 459.10                 | 9.029                             | -0.228                                | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 0.389                               |         |
| 24.1.07      | 458.80                 | 8.904                             | -0.124                                | 50                    | 0.1234             | 200                     | 0.4936               |                            | 0.0000                  | 0.493                               |         |
| 25.1.07      | 458.60                 | 8.821                             | -0.083                                | 25                    | 0.0617             | 50                      | 0.1234               |                            | 0.0000                  | 0.102                               |         |
| 26.1.07      | 458.60                 | 8.821                             | 0.000                                 | 25                    | 0.0617             | 50                      | 0.1234               |                            | 0.0000                  | 0.185                               |         |
| 27.1.07      | 458.60                 | 8.821                             | 0.000                                 | 25                    | 0.0617             | 50                      | 0.1234               |                            | 0.0000                  | 0.185                               |         |
| 28.1.07      | 458.60                 | 8.821                             | 0.000                                 | 25                    | 0.0617             | 50                      | 0.1234               |                            | 0.0000                  | 0.185                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-0.772</b>                         |                       | <b>0.617</b>       |                         | <b>1.974</b>         |                            | <b>0.000</b>            | <b>1.819</b>                        |         |
| 29.1.07      | 458.60                 | 8.821                             | 0.000                                 | 25                    | 0.0617             | 50                      | 0.1234               |                            | 0.0000                  | 0.185                               |         |

| Date          | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|---------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|               |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 30.1.07       | 458.60                 | 8.821                             | 0.000                                 | 25                    | 0.0617             | 50                      | 0.1234               |                            | 0.0000                  | 0.185                               |         |
| 31.1.07       | 458.60                 | 8.821                             | 0.000                                 | 25                    | 0.0617             | 50                      | 0.1234               |                            | 0.0000                  | 0.185                               |         |
| <b>1.2.07</b> | 458.60                 | 8.821                             | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.123                               |         |
| 2.2.07        | 458.50                 | 8.780                             | -0.041                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.082                               |         |
| 3.2.07        | 458.40                 | 8.738                             | -0.041                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.082                               |         |
| 4.2.07        | 458.30                 | 8.697                             | -0.041                                | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.082                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-0.124</b>                         |                       | <b>0.679</b>       |                         | <b>0.370</b>         |                            | <b>0.000</b>            | <b>0.925</b>                        |         |
| 5.2.07        | 458.40                 | 8.738                             | 0.041                                 | 50                    | 0.1234             | 500                     | 1.2339               |                            | 0.0000                  | 1.399                               |         |
| 6.2.07        | 458.40                 | 8.738                             | 0.000                                 | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 1.481                               |         |
| 7.2.07        | 457.70                 | 8.448                             | -0.290                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 1.191                               |         |
| 8.2.07        | 457.00                 | 8.158                             | -0.290                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 1.191                               |         |
| 9.2.07        | 456.00                 | 7.752                             | -0.406                                | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 1.075                               |         |
| 10.2.07       | 456.00                 | 7.752                             | 0.000                                 | 100                   | 0.2468             | 500                     | 1.2339               |                            | 0.0000                  | 1.481                               |         |
| 11.2.07       | 455.50                 | 7.586                             | -0.166                                | 125                   | 0.3085             | 500                     | 1.2339               |                            | 0.0000                  | 1.376                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-1.111</b>                         |                       | <b>1.666</b>       |                         | <b>8.638</b>         |                            | <b>0.000</b>            | <b>9.192</b>                        |         |
| 12.2.07       | 455.80                 | 7.686                             | 0.100                                 | 125                   | 0.3085             | 500                     | 1.2339               |                            | 0.0000                  | 1.642                               |         |
| 13.2.07       | 456.00                 | 7.752                             | 0.067                                 | 125                   | 0.3085             | 500                     | 1.2339               |                            | 0.0000                  | 1.609                               |         |
| 14.2.07       | 456.50                 | 7.951                             | 0.199                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.261                               |         |
| 15.2.07       | 457.70                 | 8.448                             | 0.497                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.559                               |         |
| 16.2.07       | 458.00                 | 8.573                             | 0.124                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.186                               |         |
| 17.2.07       | 458.20                 | 8.656                             | 0.083                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.145                               |         |
| 18.2.07       | 458.40                 | 8.738                             | 0.083                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.145                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>1.153</b>                          |                       | <b>0.925</b>       |                         | <b>2.468</b>         |                            | <b>0.000</b>            | <b>4.546</b>                        |         |
| 19.2.07       | 458.50                 | 8.780                             | 0.041                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.103                               |         |
| 20.2.07       | 458.60                 | 8.821                             | 0.041                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.103                               |         |
| 21.2.07       | 458.70                 | 8.821                             | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 22.2.07       | 458.80                 | 8.904                             | 0.083                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.145                               |         |
| 23.2.07       | 458.90                 | 8.946                             | 0.041                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.103                               |         |
| 24.2.07       | 458.90                 | 8.946                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25.2.07       | 458.80                 | 8.904                             | -0.041                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date          | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|---------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|               |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.166</b>                          |                       | <b>0.308</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.516</b>                        |         |
| 26.2.07       | 458.80                 | 8.904                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27.2.07       | 458.80                 | 8.904                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28.2.07       | 458.70                 | 8.821                             | -0.083                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>1.3.07</b> | 458.70                 | 8.821                             | 0.000                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.062                               |         |
| 2.3.07        | 458.90                 | 8.946                             | 0.124                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.186                               |         |
| 3.3.07        | 459.00                 | 8.987                             | 0.041                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.103                               |         |
| 4.3.07        | 459.60                 | 9.256                             | 0.269                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.331                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.352</b>                          |                       | <b>0.247</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.682</b>                        |         |
| 5.3.07        | 459.80                 | 9.304                             | 0.048                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.110                               |         |
| 6.3.07        | 460.00                 | 9.449                             | 0.145                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.206                               |         |
| 7.3.07        | 460.30                 | 9.594                             | 0.145                                 | 25                    | 0.0617             |                         | 0.0000               |                            | 0.0000                  | 0.206                               |         |
| 8.3.07        | 460.30                 | 9.594                             | 0.000                                 | 25                    | 0.0617             | 500                     | 1.2339               |                            | 0.0000                  | 1.296                               |         |
| 9.3.07        | 460.00                 | 9.449                             | -0.145                                | 25                    | 0.0617             | 500                     | 1.2339               |                            | 0.0000                  | 1.151                               |         |
| 10.3.07       | 459.10                 | 9.029                             | -0.421                                | 125                   | 0.3085             | 500                     | 1.2339               |                            | 0.0000                  | 1.122                               |         |
| 11.3.07       | 458.30                 | 8.697                             | -0.332                                | 125                   | 0.3085             | 500                     | 1.2339               |                            | 0.0000                  | 1.211                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-0.559</b>                         |                       | <b>0.925</b>       |                         | <b>4.936</b>         |                            | <b>0.000</b>            | <b>5.302</b>                        |         |
| 12.3.07       | 457.50                 | 8.324                             | -0.373                                | 125                   | 0.3085             | 500                     | 1.2339               |                            | 0.0000                  | 1.169                               |         |
| 13.3.07       | 456.80                 | 8.075                             | -0.249                                | 125                   | 0.3085             | 500                     | 1.2339               |                            | 0.0000                  | 1.294                               |         |
| 14.3.07       | 456.80                 | 8.075                             | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 15.3.07       | 456.90                 | 8.117                             | 0.041                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.288                               |         |
| 16.3.07       | 456.90                 | 8.117                             | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 17.3.07       | 456.90                 | 8.117                             | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 18.3.07       | 456.80                 | 8.075                             | -0.041                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.205                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-0.622</b>                         |                       | <b>1.851</b>       |                         | <b>2.468</b>         |                            | <b>0.000</b>            | <b>3.697</b>                        |         |
| 19.3.07       | 456.80                 | 8.075                             | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 20.3.07       | 456.80                 | 8.075                             | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 21.3.07       | 456.80                 | 8.075                             | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 22.3.07       | 456.70                 | 8.034                             | -0.041                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.205                               |         |
| 23.3.07       | 456.60                 | 7.993                             | -0.041                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.205                               |         |

| Date          | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|---------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|               |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 24.3.07       | 456.60                 | 7.993                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25.3.07       | 456.50                 | 7.951                             | -0.041                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-0.124</b>                         |                       | <b>1.234</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.151</b>                        |         |
| 26.3.07       | 456.50                 | 7.951                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27.3.07       | 456.40                 | 7.868                             | -0.083                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28.3.07       | 456.30                 | 7.868                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29.3.07       | 456.30                 | 7.868                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30.3.07       | 456.20                 | 7.827                             | -0.041                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31.3.07       | 456.20                 | 7.827                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>1.4.07</b> | 456.20                 | 7.827                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-0.124</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 2.4.07        | 456.20                 | 7.827                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3.4.07        | 456.20                 | 7.827                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4.4.07        | 456.10                 | 7.785                             | -0.041                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5.4.07        | 456.10                 | 7.785                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6.4.07        | 456.10                 | 7.785                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7.4.07        | 456.10                 | 7.785                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8.4.07        | 456.10                 | 7.785                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-0.041</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 9.4.07        | 456.00                 | 7.752                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10.4.07       | 456.00                 | 7.752                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11.4.07       | 456.00                 | 7.752                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12.4.07       | 456.60                 | 7.993                             | 0.240                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.240                               |         |
| 13.4.07       | 457.20                 | 8.241                             | 0.249                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.249                               |         |
| 14.4.07       | 457.30                 | 8.283                             | 0.041                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.041                               |         |
| 15.4.07       | 457.40                 | 8.324                             | 0.041                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.041                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.539</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.572</b>                        |         |
| 16.4.07       | 458.00                 | 8.573                             | 0.249                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.249                               |         |
| 17.4.07       | 458.20                 | 8.656                             | 0.083                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.083                               |         |
| 18.4.07       | 458.20                 | 8.656                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date          | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|---------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|               |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 19.4.07       | 458.20                 | 8.656                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20.4.07       | 458.20                 | 8.656                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21.4.07       | 458.50                 | 8.780                             | 0.124                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.124                               |         |
| 22.4.07       | 458.50                 | 8.780                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.456</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.456</b>                        |         |
| 23.4.07       | 458.50                 | 8.780                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24.4.07       | 458.70                 | 8.821                             | 0.041                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.041                               |         |
| 25.4.07       | 458.80                 | 8.904                             | 0.083                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.083                               |         |
| 26.4.07       | 458.80                 | 8.904                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27.4.07       | 459.60                 | 9.256                             | 0.352                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.352                               |         |
| 28.4.07       | 459.80                 | 9.304                             | 0.048                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.048                               |         |
| 29.4.07       | 459.90                 | 9.401                             | 0.096                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.096                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.621</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.621</b>                        |         |
| 30.4.07       | 460.00                 | 9.449                             | 0.048                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.048                               |         |
| <b>1.5.07</b> | 460.00                 | 9.449                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2.5.07        | 460.00                 | 9.449                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3.5.07        | 460.00                 | 9.449                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4.5.07        | 460.00                 | 9.449                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5.5.07        | 460.00                 | 9.449                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6.5.07        | 460.00                 | 9.449                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.048</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.048</b>                        |         |
| 7.5.07        | 459.90                 | 9.401                             | -0.048                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8.5.07        | 459.90                 | 9.401                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9.5.07        | 459.90                 | 9.401                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10.5.07       | 459.90                 | 9.401                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11.5.07       | 459.90                 | 9.401                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12.5.07       | 459.90                 | 9.401                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13.5.07       | 460.10                 | 9.497                             | 0.096                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.096                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.048</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.096</b>                        |         |
| 14.5.07       | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date          | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|---------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|               |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 15.5.07       | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16.5.07       | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17.5.07       | 460.10                 | 9.497                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18.5.07       | 460.30                 | 9.594                             | 0.096                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.096                               |         |
| 19.5.07       | 460.30                 | 9.594                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20.5.07       | 460.30                 | 9.594                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.096</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.096</b>                        |         |
| 21.5.07       | 460.50                 | 9.690                             | 0.096                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.096                               |         |
| 22.5.07       | 460.50                 | 9.690                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23.5.07       | 460.50                 | 9.690                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24.5.07       | 460.50                 | 9.690                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25.5.07       | 460.60                 | 9.738                             | 0.048                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.048                               |         |
| 26.5.07       | 460.60                 | 9.738                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27.5.07       | 460.70                 | 9.787                             | 0.048                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.048                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.193</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.193</b>                        |         |
| 28.5.07       | 460.70                 | 9.787                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29.5.07       | 460.70                 | 9.787                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30.5.07       | 460.70                 | 9.787                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31.5.07       | 460.70                 | 9.787                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>1.6.07</b> | 460.70                 | 9.787                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2.6.07        | 460.80                 | 9.835                             | 0.048                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.048                               |         |
| 3.6.07        | 460.80                 | 9.835                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.048</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.048</b>                        |         |
| 4.6.07        | 460.80                 | 9.835                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5.6.07        | 460.80                 | 9.835                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6.6.07        | 460.80                 | 9.835                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7.6.07        | 460.80                 | 9.835                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8.6.07        | 460.80                 | 9.835                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9.6.07        | 460.80                 | 9.835                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10.6.07       | 460.80                 | 9.835                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |



| Date          | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|---------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|               |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 11.6.07       | 460.80                 | 9.835                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12.6.07       | 460.80                 | 9.835                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13.6.07       | 460.80                 | 9.835                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14.6.07       | 460.90                 | 9.835                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15.6.07       | 461.00                 | 9.931                             | 0.096                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.096                               |         |
| 16.6.07       | 461.10                 | 9.980                             | 0.048                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.048                               |         |
| 17.6.07       |                        |                                   | -9.980                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-9.835</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.145</b>                        |         |
| 18.6.07       |                        |                                   | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19.6.07       |                        |                                   | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20.6.07       |                        |                                   | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21.6.07       |                        |                                   | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22.6.07       |                        |                                   | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23.6.07       |                        |                                   | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24.6.07       |                        |                                   | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 25.6.07       |                        |                                   | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26.6.07       |                        |                                   | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27.6.07       |                        |                                   | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28.6.07       |                        |                                   | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29.6.07       |                        |                                   | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30.6.07       |                        |                                   | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>1.7.07</b> | 471.89                 | 16.894                            | 16.894                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 16.894                              |         |
| <b>TOTAL</b>  |                        |                                   | <b>16.894</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>16.894</b>                       |         |
| 2.7.07        | 472.67                 | 17.543                            | 0.649                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.649                               |         |
| 3.7.07        | 473.39                 | 18.206                            | 0.663                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.663                               |         |
| 4.7.07        | 473.40                 | 18.301                            | 0.095                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.095                               |         |
| 5.7.07        | 475.52                 | 20.290                            | 1.989                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.989                               |         |
| 6.7.07        | 476.11                 | 20.901                            | 0.612                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.612                               |         |

| Date          | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|---------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|               |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 7.7.07        | 477.30                 | 22.168                            | 1.267                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.267                               |         |
| 8.7.07        | 477.50                 | 22.380                            | 0.211                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.211                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>5.486</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>5.486</b>                        |         |
| 9.7.07        | 477.50                 | 22.380                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10.7.07       | 480.11                 | 25.289                            | 2.909                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.909                               |         |
| 11.7.07       | 480.86                 | 26.012                            | 0.723                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.723                               |         |
| 12.7.07       | 481.10                 | 26.493                            | 0.482                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.482                               |         |
| 13.7.07       | 481.10                 | 26.493                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14.7.07       | 481.87                 | 27.337                            | 0.843                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.843                               |         |
| 15.7.07       | 485.78                 | 32.598                            | 5.261                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 5.261                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>10.218</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>10.218</b>                       |         |
| 16.7.07       | 488.02                 | 36.132                            | 3.534                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 3.534                               |         |
| 17.7.07       | 491.03                 | 41.127                            | 4.995                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 4.995                               |         |
| 18.7.07       | 493.63                 | 45.954                            | 4.828                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 4.828                               |         |
| 19.7.07       | 494.30                 | 47.336                            | 1.382                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.382                               |         |
| 20.7.07       | 500.86                 | 63.997                            | 16.661                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 16.661                              |         |
| 21.7.07       | 504.45                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 2534                       | 6.2536                  | 6.254                               |         |
| 22.7.07       | 501.62                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 7991                       | 19.7210                 | 19.721                              |         |
| <b>TOTAL</b>  |                        |                                   | <b>31.399</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>25.975</b>           | <b>57.374</b>                       |         |
| 23.7.07       | 501.55                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 3502                       | 8.6426                  | 8.643                               |         |
| 24.7.07       | 501.73                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 6220                       | 15.3503                 | 15.350                              |         |
| 25.7.07       | 501.49                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 4225                       | 10.4269                 | 10.427                              |         |
| 26.7.07       | 501.46                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 3502                       | 8.6426                  | 8.643                               |         |
| 27.7.07       | 501.76                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 4992                       | 12.3197                 | 12.320                              |         |
| 28.7.07       | 501.34                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 3157                       | 7.7911                  | 7.791                               |         |
| 29.7.07       | 501.30                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 3157                       | 7.7911                  | 7.791                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>70.964</b>           | <b>70.964</b>                       |         |
| 30.7.07       | 501.27                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 2825                       | 6.9718                  | 6.972                               |         |
| 31.7.07       | 501.43                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 3157                       | 7.7911                  | 7.791                               |         |
| <b>1.8.07</b> | 501.63                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 4225                       | 10.4269                 | 10.427                              |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 2.8.07       | 501.63                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 4225                       | 10.4269                 | 10.427                              |         |
| 3.8.07       | 500.93                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 2199                       | 5.4269                  | 5.427                               |         |
| 4.8.07       | 500.53                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 886                        | 2.1866                  | 2.310                               |         |
| 5.8.07       | 500.40                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 482                        | 1.1895                  | 1.313                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.247</b>       |                         | <b>0.000</b>         |                            | <b>44.420</b>           | <b>44.666</b>                       |         |
| 6.8.07       | 500.40                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 482                        | 1.1895                  | 1.313                               |         |
| 7.8.07       | 500.43                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 482                        | 1.1895                  | 1.313                               |         |
| 8.8.07       | 500.37                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 482                        | 1.1895                  | 1.313                               |         |
| 9.8.07       | 500.28                 | 63.997                            | 0.000                                 | 125                   | 0.3085             |                         | 0.0000               | 313                        | 0.7725                  | 1.081                               |         |
| 10.8.07      | 500.20                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 170                        | 0.4195                  | 0.790                               |         |
| 11.8.07      | 500.20                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 150                        | 0.3702                  | 0.740                               |         |
| 12.8.07      | 500.28                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 170                        | 0.4195                  | 0.851                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>1.851</b>       |                         | <b>0.000</b>         |                            | <b>5.550</b>            | <b>7.401</b>                        |         |
| 13.8.07      | 501.33                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 886                        | 2.1866                  | 2.618                               |         |
| 14.8.07      | 505.07                 | 63.997                            | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               | 39143                      | 96.6008                 | 96.724                              |         |
| 15.8.07      | 501.78                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 8930                       | 22.0383                 | 22.038                              |         |
| 16.8.07      | 500.83                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1908                       | 4.7087                  | 4.709                               |         |
| 17.8.07      | 500.70                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1116                       | 2.7542                  | 2.754                               |         |
| 18.8.07      | 500.75                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 886                        | 2.1866                  | 2.433                               |         |
| 19.8.07      | 500.88                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 1906                       | 4.7038                  | 5.074                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>1.172</b>       |                         | <b>0.000</b>         |                            | <b>135.179</b>          | <b>136.351</b>                      |         |
| 20.8.07      | 500.64                 | 63.997                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               | 1116                       | 2.7542                  | 3.124                               |         |
| 21.8.07      | 500.50                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 674                        | 1.6634                  | 2.095                               |         |
| 22.8.07      | 500.90                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 482                        | 1.1895                  | 1.621                               |         |
| 23.8.07      | 503.30                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 313                        | 0.7725                  | 1.204                               |         |
| 24.8.07      | 500.20                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 170                        | 0.4195                  | 0.851                               |         |
| 25.8.07      | 500.20                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.432                               |         |
| 26.8.07      | 501.20                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.432                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>2.961</b>       |                         | <b>0.000</b>         |                            | <b>6.799</b>            | <b>9.761</b>                        |         |
| 27.8.07      | 501.26                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 170                        | 0.4195                  | 0.851                               |         |

| Date          | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|---------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|               |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 28.8.07       | 500.79                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 1906                       | 4.7038                  | 5.136                               |         |
| 29.8.07       | 500.65                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 1364                       | 3.3662                  | 3.798                               |         |
| 30.8.07       | 500.49                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 674                        | 1.6634                  | 2.095                               |         |
| 31.8.07       | 500.40                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 482                        | 1.1895                  | 1.621                               |         |
| <b>1.9.07</b> | 500.40                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 482                        | 1.1895                  | 1.621                               |         |
| 2.9.07        | 500.28                 | 63.997                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               | 313                        | 0.7725                  | 1.204                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.000</b>                          |                       | <b>3.023</b>       |                         | <b>0.000</b>         |                            | <b>13.304</b>           | <b>16.328</b>                       |         |
| 3.9.07        | 500.10                 | 63.997                            | 0.000                                 | 175                   | 0.4319             | 500                     | 1.2339               | 170                        | 0.4195                  | 2.085                               |         |
| 4.9.07        | 499.76                 | 62.268                            | -1.729                                | 175                   | 0.4319             | 500                     | 1.2339               |                            | 0.0000                  | 0.000                               |         |
| 5.9.07        | 499.30                 | 59.962                            | -2.305                                | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 0.594                               |         |
| 6.9.07        | 498.77                 | 56.504                            | -3.458                                | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 0.000                               |         |
| 7.9.07        | 499.03                 | 58.233                            | 1.729                                 | 175                   | 0.4319             | 1000                    | 2.4679               |                            | 0.0000                  | 4.629                               |         |
| 8.9.07        | 500.93                 | 63.997                            | 5.764                                 |                       | 0.0000             |                         | 0.0000               | 1912                       | 4.7186                  | 10.482                              |         |
| 9.9.07        | 500.63                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1116                       | 2.7542                  | 2.754                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.000</b>                          |                       | <b>2.159</b>       |                         | <b>9.872</b>         |                            | <b>7.892</b>            | <b>20.545</b>                       |         |
| 10.9.07       | 500.48                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 674                        | 1.6634                  | 1.663                               |         |
| 11.9.07       | 500.34                 | 63.997                            | 0.000                                 | 75                    | 0.1851             |                         | 0.0000               | 482                        | 1.1895                  | 1.375                               |         |
| 12.9.07       | 500.18                 | 63.997                            | 0.000                                 | 75                    | 0.1851             |                         | 0.0000               | 170                        | 0.4195                  | 0.605                               |         |
| 13.9.07       | 500.10                 | 63.997                            | 0.000                                 | 75                    | 0.1851             |                         | 0.0000               | 60                         | 0.1481                  | 0.333                               |         |
| 14.9.07       | 500.19                 | 63.997                            | 0.000                                 | 75                    | 0.1851             |                         | 0.0000               | 60                         | 0.1481                  | 0.333                               |         |
| 15.9.07       | 500.23                 | 63.997                            | 0.000                                 | 100                   | 0.2468             | 350                     | 0.8638               | 482                        | 1.1895                  | 2.300                               |         |
| 16.9.07       | 499.80                 | 62.844                            | -1.153                                | 130                   | 0.3208             | 1050                    | 2.5913               |                            | 0.0000                  | 1.759                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-1.153</b>                         |                       | <b>1.308</b>       |                         | <b>3.455</b>         |                            | <b>4.758</b>            | <b>8.368</b>                        |         |
| 17.9.07       | 499.25                 | 59.386                            | -3.458                                | 130                   | 0.3208             | 1050                    | 2.5913               |                            | 0.0000                  | 0.000                               |         |
| 18.9.07       | 498.93                 | 57.657                            | -1.729                                | 130                   | 0.3208             | 1050                    | 2.5913               |                            | 0.0000                  | 1.183                               |         |
| 19.9.07       | 499.37                 | 59.962                            | 2.305                                 | 130                   | 0.3208             | 1050                    | 2.5913               |                            | 0.0000                  | 5.218                               |         |
| 20.9.07       | 499.31                 | 59.962                            | 0.000                                 | 130                   | 0.3208             | 1050                    | 2.5913               |                            | 0.0000                  | 2.912                               |         |
| 21.9.07       | 499.23                 | 59.386                            | -0.576                                | 175                   | 0.4319             | 1050                    | 2.5913               |                            | 0.0000                  | 2.447                               |         |
| 22.9.07       | 498.54                 | 56.080                            | -3.306                                | 200                   | 0.4936             | 1500                    | 3.7018               |                            | 0.0000                  | 0.890                               |         |
| 23.9.07       | 497.52                 | 53.960                            | -2.120                                | 200                   | 0.4936             | 1500                    | 3.7018               |                            | 0.0000                  | 2.075                               |         |

| Date           | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b>   |                        |                                   | <b>-8.884</b>                         |                       | <b>2.702</b>       |                         | <b>20.360</b>        |                            | <b>0.000</b>            | <b>14.724</b>                       |         |
| 24.9.07        | 501.08                 | 63.997                            | 10.037                                | 200                   | 0.4936             | 1500                    | 3.7018               |                            | 0.0000                  | 14.233                              |         |
| 25.9.07        | 505.05                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 7534                       | 18.5931                 | 18.593                              |         |
| 26.9.07        | 502.79                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 18195                      | 44.9034                 | 44.903                              |         |
| 27.9.07        | 501.56                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 4992                       | 12.3197                 | 12.320                              |         |
| 28.9.07        | 500.95                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1906                       | 4.7038                  | 4.704                               |         |
| 29.9.07        | 500.75                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 1364                       | 3.3662                  | 3.366                               |         |
| 30.9.07        | 500.55                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 886                        | 2.1866                  | 2.187                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>10.037</b>                         |                       | <b>0.494</b>       |                         | <b>3.702</b>         |                            | <b>86.073</b>           | <b>100.305</b>                      |         |
| <b>1.10.07</b> | 500.49                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 674                        | 1.6634                  | 1.663                               |         |
| 2.10.07        | 500.48                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 674                        | 1.6634                  | 1.663                               |         |
| 3.10.07        | 500.40                 | 63.997                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               | 482                        | 1.1895                  | 1.190                               |         |
| 4.10.07        | 500.46                 | 63.997                            | 0.000                                 | 180                   | 0.4442             | 500                     | 1.2339               | 1162                       | 2.8677                  | 4.546                               |         |
| 5.10.07        | 500.67                 | 63.997                            | 0.000                                 | 180                   | 0.4442             | 500                     | 1.2339               | 1364                       | 3.3662                  | 5.044                               |         |
| 6.10.07        | 500.43                 | 63.997                            | 0.000                                 | 180                   | 0.4442             | 500                     | 1.2339               | 674                        | 1.6634                  | 3.342                               |         |
| 7.10.07        | 500.04                 | 63.997                            | 0.000                                 | 180                   | 0.4442             | 500                     | 1.2339               | 313                        | 0.7725                  | 2.451                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>0.000</b>                          |                       | <b>1.777</b>       |                         | <b>4.936</b>         |                            | <b>13.186</b>           | <b>19.899</b>                       |         |
| 8.10.07        | 499.44                 | 60.539                            | -3.458                                | 200                   | 0.4936             | 1500                    | 3.7018               |                            | 0.0000                  | 0.737                               |         |
| 9.10.07        | 498.82                 | 56.504                            | -4.035                                | 200                   | 0.4936             | 1500                    | 3.7018               |                            | 0.0000                  | 0.161                               |         |
| 10.10.07       | 497.87                 | 54.596                            | -1.908                                | 200                   | 0.4936             | 1500                    | 3.7018               |                            | 0.0000                  | 2.287                               |         |
| 11.10.07       | 496.75                 | 52.264                            | -2.332                                | 200                   | 0.4936             | 1500                    | 3.7018               |                            | 0.0000                  | 1.863                               |         |
| 12.10.07       | 495.88                 | 50.356                            | -1.908                                | 200                   | 0.4936             | 1500                    | 3.7018               |                            | 0.0000                  | 2.287                               |         |
| 13.10.07       | 495.54                 | 49.720                            | -0.636                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 2.325                               |         |
| 14.10.07       | 494.88                 | 48.323                            | -1.396                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.565                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-15.674</b>                        |                       | <b>3.455</b>       |                         | <b>23.445</b>        |                            | <b>0.000</b>            | <b>11.226</b>                       |         |
| 15.10.07       | 496.38                 | 51.416                            | 3.093                                 | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 6.054                               |         |
| 16.10.07       | 496.58                 | 51.628                            | 0.212                                 | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 3.173                               |         |
| 17.10.07       | 496.34                 | 51.416                            | -0.212                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 2.749                               |         |
| 18.10.07       | 495.77                 | 50.144                            | -1.272                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.689                               |         |
| 19.10.07       | 494.96                 | 48.521                            | -1.623                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.338                               |         |

| Date           | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 20.10.07       | 494.25                 | 46.941                            | -1.579                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.382                               |         |
| 21.10.07       | 493.57                 | 45.757                            | -1.184                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.777                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-2.566</b>                         |                       | <b>3.455</b>       |                         | <b>17.275</b>        |                            | <b>0.000</b>            | <b>18.164</b>                       |         |
| 22.10.07       | 492.80                 | 44.375                            | -1.382                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.580                               |         |
| 23.10.07       | 492.15                 | 43.019                            | -1.356                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.605                               |         |
| 24.10.07       | 491.52                 | 41.987                            | -1.032                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.930                               |         |
| 25.10.07       | 490.70                 | 40.611                            | -1.376                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.586                               |         |
| 26.10.07       | 490.14                 | 39.579                            | -1.032                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.930                               |         |
| 27.10.07       | 489.41                 | 38.375                            | -1.204                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.758                               |         |
| 28.10.07       | 488.55                 | 36.900                            | -1.475                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.487                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-8.856</b>                         |                       | <b>3.455</b>       |                         | <b>17.275</b>        |                            | <b>0.000</b>            | <b>11.874</b>                       |         |
| 29.10.07       | 487.83                 | 35.825                            | -1.076                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.886                               |         |
| 30.10.07       | 486.03                 | 33.059                            | -2.766                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 0.195                               |         |
| 31.10.07       | 485.33                 | 31.898                            | -1.161                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.801                               |         |
| <b>1.11.07</b> | 484.60                 | 31.079                            | -0.819                                | 200                   | 0.4936             | 1500                    | 3.7018               |                            | 0.0000                  | 3.376                               |         |
| 2.11.07        | 483.90                 | 30.123                            | -0.956                                | 200                   | 0.4936             | 450                     | 1.1106               |                            | 0.0000                  | 0.649                               |         |
| 3.11.07        | 483.40                 | 29.441                            | -0.683                                | 200                   | 0.4936             | 450                     | 1.1106               |                            | 0.0000                  | 0.922                               |         |
| 4.11.07        | 482.70                 | 28.485                            | -0.956                                | 200                   | 0.4936             | 450                     | 1.1106               |                            | 0.0000                  | 0.649                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-8.415</b>                         |                       | <b>3.455</b>       |                         | <b>14.437</b>        |                            | <b>0.000</b>            | <b>9.477</b>                        |         |
| 5.11.07        | 481.90                 | 27.457                            | -1.028                                | 200                   | 0.4936             | 450                     | 1.1106               |                            | 0.0000                  | 0.576                               |         |
| 6.11.07        | 481.10                 | 26.493                            | -0.964                                | 200                   | 0.4936             | 450                     | 1.1106               |                            | 0.0000                  | 0.640                               |         |
| 7.11.07        | 480.50                 | 25.771                            | -0.723                                | 200                   | 0.4936             | 450                     | 1.1106               |                            | 0.0000                  | 0.881                               |         |
| 8.11.07        | 480.00                 | 25.168                            | -0.602                                | 200                   | 0.4936             | 300                     | 0.7404               |                            | 0.0000                  | 0.632                               |         |
| 9.11.07        | 479.80                 | 24.927                            | -0.241                                | 200                   | 0.4936             | 300                     | 0.7404               |                            | 0.0000                  | 0.993                               |         |
| 10.11.07       | 479.60                 | 24.686                            | -0.241                                | 200                   | 0.4936             | 300                     | 0.7404               |                            | 0.0000                  | 0.993                               |         |
| 11.11.07       | 479.30                 | 24.325                            | -0.361                                |                       | 0.0000             | 200                     | 0.4936               |                            | 0.0000                  | 0.132                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-4.160</b>                         |                       | <b>2.961</b>       |                         | <b>6.046</b>         |                            | <b>0.000</b>            | <b>4.847</b>                        |         |
| 12.11.07       | 479.10                 | 24.084                            | -0.241                                |                       | 0.0000             | 200                     | 0.4936               |                            | 0.0000                  | 0.253                               |         |
| 13.11.07       | 479.00                 | 23.963                            | -0.120                                |                       | 0.0000             | 100                     | 0.2468               |                            | 0.0000                  | 0.126                               |         |
| 14.11.07       | 479.00                 | 23.963                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date           | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 15.11.07       | 479.00                 | 23.963                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16.11.07       | 479.00                 | 23.963                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17.11.07       | 479.00                 | 23.963                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18.11.07       | 479.00                 | 23.963                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-0.361</b>                         |                       | <b>0.000</b>       |                         | <b>0.740</b>         |                            | <b>0.000</b>            | <b>0.379</b>                        |         |
| 19.11.07       | 479.00                 | 23.963                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20.11.07       | 479.00                 | 23.963                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21.11.07       | 479.00                 | 23.963                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22.11.07       | 479.10                 | 24.084                            | 0.120                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.120                               |         |
| 23.11.07       | 479.10                 | 24.084                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24.11.07       | 479.10                 | 24.084                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25.11.07       | 479.10                 | 24.084                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>0.120</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.120</b>                        |         |
| 26.11.07       | 479.10                 | 24.084                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27.11.07       | 479.10                 | 24.084                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28.11.07       | 479.10                 | 24.084                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29.11.07       | 479.10                 | 24.084                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30.11.07       | 479.10                 | 24.084                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>1.12.07</b> | 479.20                 | 24.204                            | 0.120                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.120                               |         |
| 2.12.07        | 479.20                 | 24.204                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>0.120</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.120</b>                        |         |
| 3.12.07        | 479.20                 | 24.204                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4.12.07        | 479.20                 | 24.204                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5.12.07        | 479.20                 | 24.204                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6.12.07        | 497.30                 | 53.536                            | 29.332                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 29.332                              |         |
| 7.12.07        | 497.30                 | 53.536                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8.12.07        | 479.30                 | 24.325                            | -29.211                               |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9.12.07        | 497.30                 | 53.536                            | 29.211                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 29.211                              |         |
| <b>TOTAL</b>   |                        |                                   | <b>29.332</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>58.543</b>                       |         |
| 10.12.07       | 497.30                 | 53.536                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 11.12.07          | 497.30                 | 53.536                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12.12.07          | 479.40                 | 24.445                            | -29.091                               |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13.12.07          | 479.40                 | 24.445                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14.12.07          | 479.40                 | 24.445                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15.12.07          | 479.40                 | 24.445                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16.12.07          | 479.50                 | 24.566                            | 0.120                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.120                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-28.970</b>                        |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.120</b>                        |         |
| 17.12.07          | 479.50                 | 24.566                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18.12.07          | 479.50                 | 24.566                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19.12.07          | 479.50                 | 24.566                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20.12.07          | 479.60                 | 24.686                            | 0.120                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.120                               |         |
| 21.12.07          | 479.60                 | 24.686                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22.12.07          | 479.60                 | 24.686                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23.12.07          | 479.60                 | 24.686                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.120</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.120</b>                        |         |
| 24.12.07          | 479.70                 | 24.686                            | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25.12.07          | 479.70                 | 24.686                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 26.12.07          | 479.70                 | 24.686                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.247                               |         |
| 27.12.07          | 479.60                 | 24.686                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.432                               |         |
| 28.12.07          | 479.60                 | 24.686                            | 0.000                                 | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.432                               |         |
| 29.12.07          | 479.40                 | 24.445                            | -0.241                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.191                               |         |
| 30.12.07          | 479.20                 | 24.204                            | -0.241                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.191                               |         |
| 31.12.07          | 479.10                 | 24.084                            | -0.120                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.602</b>                         |                       | <b>2.221</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.739</b>                        |         |
| <b>01-01-2008</b> | 479.00                 | 23.963                            | -0.120                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.311                               |         |
| 2                 | 478.90                 | 23.858                            | -0.106                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.326                               |         |
| 3                 | 478.70                 | 23.647                            | -0.211                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.221                               |         |
| 4                 | 478.60                 | 23.435                            | -0.211                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.221                               |         |
| 5                 | 478.40                 | 23.330                            | -0.106                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.326                               |         |
| 6                 | 478.30                 | 23.224                            | -0.106                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.326                               |         |



| Date              | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 7                 | 478.10                 | 23.013                            | -0.211                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.221                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.071</b>                         |                       | <b>3.023</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.952</b>                        |         |
| 8                 | 478.00                 | 22.908                            | -0.106                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.326                               |         |
| 9                 | 477.80                 | 22.696                            | -0.211                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.221                               |         |
| 10                | 477.60                 | 22.485                            | -0.211                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.221                               |         |
| 11                | 477.50                 | 22.380                            | -0.106                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.326                               |         |
| 12                | 477.30                 | 22.168                            | -0.211                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.221                               |         |
| 13                | 477.10                 | 21.957                            | -0.211                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.221                               |         |
| 14                | 477.00                 | 21.852                            | -0.106                                | 175                   | 0.4319             | 300                     | 0.7404               |                            | 0.0000                  | 1.067                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.161</b>                         |                       | <b>3.023</b>       |                         | <b>0.740</b>         |                            | <b>0.000</b>            | <b>2.602</b>                        |         |
| 15                | 476.40                 | 21.218                            | -0.634                                | 175                   | 0.4319             | 300                     | 0.7404               |                            | 0.0000                  | 0.539                               |         |
| 16                | 475.70                 | 20.479                            | -0.739                                | 175                   | 0.4319             | 300                     | 0.7404               |                            | 0.0000                  | 0.433                               |         |
| 17                | 474.90                 | 19.721                            | -0.758                                | 175                   | 0.4319             | 300                     | 0.7404               |                            | 0.0000                  | 0.415                               |         |
| 18                | 473.80                 | 18.680                            | -1.042                                | 175                   | 0.4319             | 300                     | 0.7404               |                            | 0.0000                  | 0.130                               |         |
| 19                | 473.20                 | 18.111                            | -0.568                                | 175                   | 0.4319             | 400                     | 0.9872               |                            | 0.0000                  | 0.851                               |         |
| 20                | 472.40                 | 17.369                            | -0.742                                | 175                   | 0.4319             | 400                     | 0.9872               |                            | 0.0000                  | 0.677                               |         |
| 21                | 471.30                 | 16.498                            | -0.871                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-5.354</b>                         |                       | <b>3.023</b>       |                         | <b>4.936</b>         |                            | <b>0.000</b>            | <b>3.045</b>                        |         |
| 22                | 470.90                 | 16.181                            | -0.317                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.115                               |         |
| 23                | 470.60                 | 15.943                            | -0.238                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.194                               |         |
| 24                | 470.40                 | 15.785                            | -0.158                                | 175                   | 0.4319             |                         | 0.0000               |                            | 0.0000                  | 0.273                               |         |
| 25                | 473.30                 | 18.206                            | 2.421                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 2.421                               |         |
| 26                | 475.10                 | 19.911                            | 1.705                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.705                               |         |
| 27                | 475.50                 | 20.290                            | 0.379                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.379                               |         |
| 28                | 475.70                 | 20.479                            | 0.189                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.189                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>3.981</b>                          |                       | <b>1.296</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>5.277</b>                        |         |
| 29                | 475.80                 | 20.585                            | 0.106                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.106                               |         |
| 30                | 477.40                 | 22.168                            | 1.584                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.584                               |         |
| 31                | 478.20                 | 23.119                            | 0.950                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.950                               |         |
| <b>02-01-2008</b> | 478.50                 | 23.435                            | 0.317                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.317                               |         |

| Date         | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 2            | 478.80                 | 23.752                            | 0.317                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.687                               |         |
| 3            | 478.80                 | 23.752                            | 0.000                                 | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.370                               |         |
| 4            | 478.70                 | 23.647                            | -0.106                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.265                               |         |
| <b>TOTAL</b> |                        |                                   | <b>3.168</b>                          |                       | <b>1.111</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>4.278</b>                        |         |
| 5            | 478.50                 | 23.435                            | -0.211                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.159                               |         |
| 6            | 478.30                 | 23.224                            | -0.211                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.159                               |         |
| 7            | 478.20                 | 23.119                            | -0.106                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.265                               |         |
| 8            | 478.00                 | 22.908                            | -0.211                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.159                               |         |
| 9            | 477.80                 | 22.696                            | -0.211                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.159                               |         |
| 10           | 477.60                 | 22.485                            | -0.211                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.159                               |         |
| 11           | 477.50                 | 22.380                            | -0.106                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.265                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-1.267</b>                         |                       | <b>2.591</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.324</b>                        |         |
| 12           | 477.40                 | 22.168                            | -0.211                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.159                               |         |
| 13           | 477.20                 | 22.063                            | -0.106                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.265                               |         |
| 14           | 477.00                 | 21.852                            | -0.211                                | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.097                               |         |
| 15           | 476.90                 | 21.746                            | -0.106                                | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.203                               |         |
| 16           | 476.70                 | 21.535                            | -0.211                                | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.097                               |         |
| 17           | 476.50                 | 21.324                            | -0.211                                | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.097                               |         |
| 18           | 476.40                 | 21.218                            | -0.106                                | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.203                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-1.161</b>                         |                       | <b>2.283</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.121</b>                        |         |
| 19           | 476.20                 | 21.007                            | -0.211                                | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.097                               |         |
| 20           | 476.00                 | 20.796                            | -0.211                                | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.097                               |         |
| 21           | 475.90                 | 20.690                            | -0.106                                | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.203                               |         |
| 22           | 475.70                 | 20.479                            | -0.211                                | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.097                               |         |
| 23           | 475.60                 | 20.384                            | -0.095                                | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.214                               |         |
| 24           | 475.50                 | 20.290                            | -0.095                                | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.214                               |         |
| 25           | 475.30                 | 20.100                            | -0.189                                | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.119                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-1.118</b>                         |                       | <b>2.159</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.041</b>                        |         |
| 26           | 475.10                 | 19.911                            | -0.189                                | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.119                               |         |
| 27           | 475.00                 | 19.816                            | -0.095                                | 125                   | 0.3085             |                         | 0.0000               |                            | 0.0000                  | 0.214                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 28                | 474.80                 | 19.627                            | -0.189                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.304                               |         |
| 29                | 474.60                 | 19.437                            | -0.189                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.304                               |         |
| <b>03-01-2008</b> | 474.30                 | 19.153                            | -0.284                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.209                               |         |
| 2                 | 474.10                 | 18.869                            | -0.284                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.209                               |         |
| 3                 | 473.90                 | 18.774                            | -0.095                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.399                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.326</b>                         |                       | <b>3.085</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.759</b>                        |         |
| 4                 | 473.70                 | 18.585                            | -0.189                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.304                               |         |
| 5                 | 473.40                 | 18.301                            | -0.284                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.209                               |         |
| 6                 | 473.20                 | 18.111                            | -0.189                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.304                               |         |
| 7                 | 473.00                 | 17.922                            | -0.189                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.304                               |         |
| 8                 | 472.70                 | 17.638                            | -0.284                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.209                               |         |
| 9                 | 472.50                 | 17.448                            | -0.189                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.304                               |         |
| 10                | 472.30                 | 17.290                            | -0.158                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.335                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.484</b>                         |                       | <b>3.455</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.971</b>                        |         |
| 11                | 472.00                 | 17.052                            | -0.238                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.256                               |         |
| 12                | 471.70                 | 16.815                            | -0.238                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.256                               |         |
| 13                | 471.50                 | 16.656                            | -0.158                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.335                               |         |
| 14                | 471.20                 | 16.418                            | -0.238                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.256                               |         |
| 15                | 471.00                 | 16.260                            | -0.158                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.335                               |         |
| 16                | 470.80                 | 16.102                            | -0.158                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.335                               |         |
| 17                | 470.60                 | 15.943                            | -0.158                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.335                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.347</b>                         |                       | <b>3.455</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>2.108</b>                        |         |
| 18                | 470.30                 | 15.705                            | -0.238                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.256                               |         |
| 19                | 470.10                 | 15.547                            | -0.158                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.335                               |         |
| 20                | 470.00                 | 15.468                            | -0.079                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.414                               |         |
| 21                | 469.80                 | 15.309                            | -0.158                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.335                               |         |
| 22                | 469.60                 | 15.072                            | -0.238                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.256                               |         |
| 23                | 469.40                 | 14.992                            | -0.079                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.414                               |         |
| 24                | 469.10                 | 14.766                            | -0.226                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.267                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.177</b>                         |                       | <b>3.455</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>2.278</b>                        |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 25                | 468.80                 | 14.563                            | -0.203                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.290                               |         |
| 26                | 468.70                 | 14.495                            | -0.068                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.426                               |         |
| 27                | 468.50                 | 14.292                            | -0.203                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.290                               |         |
| 28                | 468.30                 | 14.224                            | -0.068                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.426                               |         |
| 29                | 468.10                 | 14.089                            | -0.136                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.358                               |         |
| 30                | 467.80                 | 13.885                            | -0.203                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.290                               |         |
| 31                | 467.60                 | 13.750                            | -0.136                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.358                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.016</b>                         |                       | <b>3.455</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>2.439</b>                        |         |
| <b>04-01-2008</b> | 467.40                 | 13.547                            | -0.203                                | 70                    | 0.1728             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 467.30                 | 13.547                            | 0.000                                 | 70                    | 0.1728             |                         | 0.0000               |                            | 0.0000                  | 0.173                               |         |
| 3                 | 467.20                 | 13.479                            | -0.068                                | 70                    | 0.1728             |                         | 0.0000               |                            | 0.0000                  | 0.105                               |         |
| 4                 | 467.00                 | 13.343                            | -0.136                                | 70                    | 0.1728             |                         | 0.0000               |                            | 0.0000                  | 0.037                               |         |
| 5                 | 466.90                 | 13.276                            | -0.068                                | 70                    | 0.1728             |                         | 0.0000               |                            | 0.0000                  | 0.105                               |         |
| 6                 | 466.80                 | 13.208                            | -0.068                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.105                               |         |
| 7                 | 466.60                 | 13.072                            | -0.136                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.037                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.678</b>                         |                       | <b>0.864</b>       |                         | <b>0.346</b>         |                            | <b>0.000</b>            | <b>0.562</b>                        |         |
| 8                 | 466.50                 | 13.005                            | -0.068                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.105                               |         |
| 9                 | 466.40                 | 12.937                            | -0.068                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.105                               |         |
| 10                | 466.30                 | 12.801                            | -0.136                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.037                               |         |
| 11                | 466.10                 | 12.734                            | -0.068                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.105                               |         |
| 12                | 466.00                 | 12.666                            | -0.068                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.105                               |         |
| 13                | 465.90                 | 12.598                            | -0.068                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.105                               |         |
| 14                | 465.80                 | 12.541                            | -0.057                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.115                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.532</b>                         |                       | <b>0.000</b>       |                         | <b>1.209</b>         |                            | <b>0.000</b>            | <b>0.678</b>                        |         |
| 15                | 465.70                 | 12.483                            | -0.057                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.115                               |         |
| 16                | 465.60                 | 12.426                            | -0.057                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.115                               |         |
| 17                | 465.50                 | 12.368                            | -0.057                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.115                               |         |
| 18                | 465.30                 | 12.253                            | -0.115                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.058                               |         |
| 19                | 465.20                 | 12.139                            | -0.115                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.058                               |         |
| 20                | 465.10                 | 12.139                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.173                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 21                | 465.00                 | 12.081                            | -0.057                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.115                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.459</b>                         |                       | <b>0.000</b>       |                         | <b>1.209</b>         |                            | <b>0.000</b>            | <b>0.750</b>                        |         |
| 22                | 464.90                 | 12.024                            | -0.057                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.115                               |         |
| 23                | 464.70                 | 11.909                            | -0.115                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.058                               |         |
| 24                | 464.60                 | 11.852                            | -0.057                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.115                               |         |
| 25                | 464.50                 | 11.794                            | -0.057                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.115                               |         |
| 26                | 464.30                 | 11.679                            | -0.115                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.058                               |         |
| 27                | 464.20                 | 11.622                            | -0.057                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.115                               |         |
| 28                | 464.00                 | 11.450                            | -0.172                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.632</b>                         |                       | <b>0.000</b>       |                         | <b>1.209</b>         |                            | <b>0.000</b>            | <b>0.578</b>                        |         |
| 29                | 463.80                 | 11.392                            | -0.057                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.115                               |         |
| 30                | 463.70                 | 11.335                            | -0.057                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.115                               |         |
| <b>05-01-2008</b> | 463.50                 | 11.220                            | -0.115                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 463.40                 | 11.162                            | -0.057                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3                 | 463.20                 | 11.048                            | -0.115                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4                 | 463.00                 | 10.933                            | -0.115                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5                 | 462.80                 | 10.818                            | -0.115                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.632</b>                         |                       | <b>0.000</b>       |                         | <b>0.346</b>         |                            | <b>0.000</b>            | <b>0.231</b>                        |         |
| 6                 | 462.60                 | 10.703                            | -0.115                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7                 | 462.30                 | 10.558                            | -0.145                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8                 | 462.00                 | 10.414                            | -0.145                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9                 | 461.50                 | 10.173                            | -0.241                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10                | 461.00                 | 9.931                             | -0.241                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11                | 460.80                 | 9.835                             | -0.096                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12                | 460.70                 | 9.787                             | -0.048                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.031</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 13                | 460.50                 | 9.690                             | -0.096                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14                | 460.30                 | 9.594                             | -0.096                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15                | 460.10                 | 9.497                             | -0.096                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16                | 459.90                 | 9.401                             | -0.096                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 17                | 459.70                 | 9.304                             | -0.096                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18                | 459.50                 | 9.208                             | -0.096                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19                | 459.30                 | 9.111                             | -0.096                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.675</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 20                | 459.00                 | 8.987                             | -0.124                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21                | 458.70                 | 8.821                             | -0.166                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22                | 458.50                 | 8.780                             | -0.041                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23                | 458.30                 | 8.697                             | -0.083                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24                | 458.00                 | 8.573                             | -0.124                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25                | 457.70                 | 8.448                             | -0.124                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26                | 457.40                 | 8.324                             | -0.124                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-0.787</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 27                | 457.00                 | 8.158                             | -0.166                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28                | 456.50                 | 7.951                             | -0.207                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29                | 456.00                 | 7.752                             | -0.199                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30                | 455.80                 | 7.686                             | -0.067                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31                | 455.50                 | 7.586                             | -0.100                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>06-01-2008</b> | 454.00                 | 7.087                             | -0.499                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.000                               |         |
| 2                 | 453.80                 | 7.020                             | -0.067                                |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.106                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>-1.304</b>                         |                       | <b>0.000</b>       |                         | <b>0.346</b>         |                            | <b>0.000</b>            | <b>0.106</b>                        |         |
| 3                 | 454.00                 | 7.087                             | 0.067                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.239                               |         |
| 4                 | 454.00                 | 7.087                             | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.173                               |         |
| 5                 | 456.70                 | 8.034                             | 0.947                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 1.120                               |         |
| 6                 | 458.00                 | 8.573                             | 0.539                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.711                               |         |
| 7                 | 461.70                 | 10.269                            | 1.696                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 1.869                               |         |
| 8                 | 462.50                 | 10.655                            | 0.386                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.559                               |         |
| 9                 | 462.50                 | 10.655                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.173                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>3.635</b>                          |                       | <b>0.000</b>       |                         | <b>1.209</b>         |                            | <b>0.000</b>            | <b>4.844</b>                        |         |
| 10                | 462.80                 | 10.818                            | 0.163                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.336                               |         |
| 11                | 465.00                 | 12.081                            | 1.263                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 1.436                               |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 12                | 465.10                 | 12.139                            | 0.057                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.230                               |         |
| 13                | 466.20                 | 12.801                            | 0.663                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.835                               |         |
| 14                | 467.00                 | 13.343                            | 0.542                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.715                               |         |
| 15                | 468.93                 | 14.631                            | 1.287                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 1.460                               |         |
| 16                | 472.38                 | 17.290                            | 2.659                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 2.832                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>6.635</b>                          |                       | <b>0.000</b>       |                         | <b>1.209</b>         |                            | <b>0.000</b>            | <b>7.844</b>                        |         |
| 17                | 478.07                 | 22.908                            | 5.618                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 5.790                               |         |
| 18                | 482.11                 | 27.698                            | 4.791                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 4.963                               |         |
| 19                | 483.15                 | 28.895                            | 1.197                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 1.369                               |         |
| 20                | 484.14                 | 30.396                            | 1.502                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 1.674                               |         |
| 21                | 485.45                 | 32.171                            | 1.775                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 1.947                               |         |
| 22                | 486.25                 | 33.366                            | 1.195                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 1.368                               |         |
| 23                | 486.80                 | 34.288                            | 0.922                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 1.095                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>16.998</b>                         |                       | <b>0.000</b>       |                         | <b>1.209</b>         |                            | <b>0.000</b>            | <b>18.207</b>                       |         |
| 24                | 487.64                 | 35.517                            | 1.229                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 1.402                               |         |
| 25                | 487.70                 | 35.671                            | 0.154                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.326                               |         |
| 26                | 487.70                 | 35.671                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.173                               |         |
| 27                | 487.70                 | 35.671                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.173                               |         |
| 28                | 487.80                 | 35.825                            | 0.154                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.326                               |         |
| 29                | 487.84                 | 35.825                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.173                               |         |
| 30                | 489.04                 | 37.687                            | 1.862                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 2.035                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>3.399</b>                          |                       | <b>0.000</b>       |                         | <b>1.209</b>         |                            | <b>0.000</b>            | <b>4.608</b>                        |         |
| <b>07-01-2008</b> | 490.28                 | 39.751                            | 2.064                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 2.237                               |         |
| 2                 | 491.70                 | 42.331                            | 2.580                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 2.752                               |         |
| 3                 | 492.74                 | 44.178                            | 1.847                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 2.020                               |         |
| 4                 | 494.48                 | 47.534                            | 3.356                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 3.529                               |         |
| 5                 | 495.32                 | 49.310                            | 1.777                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 1.949                               |         |
| 6                 | 497.12                 | 53.112                            | 3.802                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 3.974                               |         |
| 7                 | 497.73                 | 54.384                            | 1.272                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 1.445                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>16.697</b>                         |                       | <b>0.000</b>       |                         | <b>1.209</b>         |                            | <b>0.000</b>            | <b>17.906</b>                       |         |

| Date              | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|-------------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                   |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 8                 | 497.81                 | 54.596                            | 0.212                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.385                               |         |
| 9                 | 497.94                 | 54.808                            | 0.212                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.385                               |         |
| 10                | 498.23                 | 55.444                            | 0.636                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.809                               |         |
| 11                | 498.47                 | 55.868                            | 0.424                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.597                               |         |
| 12                | 498.53                 | 56.080                            | 0.212                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 0.385                               |         |
| 13                | 499.83                 | 62.844                            | 6.764                                 |                       | 0.0000             | 70                      | 0.1728               |                            | 0.0000                  | 6.937                               |         |
| 14                | 500.40                 | 63.997                            | 1.153                                 |                       | 0.0000             | 70                      | 0.1728               | 482                        | 1.1895                  | 2.515                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>9.613</b>                          |                       | <b>0.000</b>       |                         | <b>1.209</b>         |                            | <b>1.190</b>            | <b>12.012</b>                       |         |
| 15                | 502.05                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 1364                       | 3.3662                  | 3.539                               |         |
| 16                | 501.68                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 6648                       | 16.4066                 | 16.579                              |         |
| 17                | 500.74                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 1906                       | 4.7038                  | 4.877                               |         |
| 18                | 500.45                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 674                        | 1.6634                  | 1.836                               |         |
| 19                | 501.15                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 694                        | 1.7127                  | 1.885                               |         |
| 20                | 501.18                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 2505                       | 6.1821                  | 6.355                               |         |
| 21                | 501.33                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 2505                       | 6.1821                  | 6.355                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>1.209</b>         |                            | <b>40.217</b>           | <b>41.426</b>                       |         |
| 22                | 501.53                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 3857                       | 9.5187                  | 9.691                               |         |
| 23                | 501.13                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 3502                       | 8.6426                  | 8.815                               |         |
| 24                | 500.68                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 1364                       | 3.3662                  | 3.539                               |         |
| 25                | 500.60                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 886                        | 2.1866                  | 2.359                               |         |
| 26                | 500.44                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 482                        | 1.1895                  | 1.362                               |         |
| 27                | 500.47                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 886                        | 2.1866                  | 2.359                               |         |
| 28                | 500.37                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 482                        | 1.1895                  | 1.362                               |         |
| <b>TOTAL</b>      |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>1.209</b>         |                            | <b>28.280</b>           | <b>29.489</b>                       |         |
| 29                | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 313                        | 0.7725                  | 0.945                               |         |
| 30                | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 313                        | 0.7725                  | 0.945                               |         |
| 31                | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 313                        | 0.7725                  | 0.945                               |         |
| <b>08-01-2008</b> | 500.30                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 313                        | 0.7725                  | 0.945                               |         |
| 2                 | 500.13                 | 63.997                            | 0.000                                 | 50                    | 0.1234             | 20                      | 0.0494               | 170                        | 0.4195                  | 0.592                               |         |
| 3                 | 500.10                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 60                         | 0.1481                  | 0.395                               |         |



| Date         | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 4            | 500.10                 | 63.997                            | 0.000                                 | 100                   | 0.2468             |                         | 0.0000               | 60                         | 0.1481                  | 0.395                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.617</b>       |                         | <b>0.740</b>         |                            | <b>3.805</b>            | <b>5.163</b>                        |         |
| 5            | 499.98                 | 62.844                            | -1.153                                | 175                   | 0.4319             |                         | 0.0000               | 60                         | 0.1481                  | 0.000                               |         |
| 6            | 499.63                 | 61.691                            | -1.153                                | 225                   | 0.5553             | 600                     | 1.4807               |                            | 0.0000                  | 0.883                               |         |
| 7            | 499.45                 | 60.539                            | -1.153                                | 225                   | 0.5553             | 800                     | 1.9743               |                            | 0.0000                  | 1.377                               |         |
| 8            | 499.38                 | 59.962                            | -0.576                                |                       | 0.0000             | 800                     | 1.9743               |                            | 0.0000                  | 1.398                               |         |
| 9            | 499.23                 | 59.386                            | -0.576                                |                       | 0.0000             | 800                     | 1.9743               |                            | 0.0000                  | 1.398                               |         |
| 10           | 499.05                 | 58.233                            | -1.153                                |                       | 0.0000             | 800                     | 1.9743               |                            | 0.0000                  | 0.822                               |         |
| 11           | 501.13                 | 63.997                            | 5.764                                 |                       | 0.0000             | 800                     | 1.9743               |                            | 0.0000                  | 7.738                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>1.542</b>       |                         | <b>11.352</b>        |                            | <b>0.148</b>            | <b>13.616</b>                       |         |
| 12           | 501.21                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 3502                       | 8.6426                  | 8.815                               |         |
| 13           | 500.83                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 1627                       | 4.0153                  | 4.188                               |         |
| 14           | 500.98                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 1116                       | 2.7542                  | 2.927                               |         |
| 15           | 501.05                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 2505                       | 6.1821                  | 6.355                               |         |
| 16           | 500.78                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 1906                       | 4.7038                  | 4.877                               |         |
| 17           | 500.45                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 674                        | 1.6634                  | 1.836                               |         |
| 18           | 500.23                 | 63.997                            | 0.000                                 |                       | 0.0000             | 100                     | 0.2468               | 313                        | 0.7725                  | 1.019                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>1.283</b>         |                            | <b>28.734</b>           | <b>30.017</b>                       |         |
| 19           | 500.45                 | 63.997                            | 0.000                                 |                       | 0.0000             | 600                     | 1.4807               | 170                        | 0.4195                  | 1.900                               |         |
| 20           | 501.11                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 2825                       | 6.9718                  | 7.145                               |         |
| 21           | 501.73                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 5391                       | 13.3044                 | 13.477                              |         |
| 22           | 500.79                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 1906                       | 4.7038                  | 4.877                               |         |
| 23           | 500.43                 | 63.997                            | 0.000                                 |                       | 0.0000             | 70                      | 0.1728               | 674                        | 1.6634                  | 1.836                               |         |
| 24           | 500.23                 | 63.997                            | 0.000                                 |                       | 0.0000             | 400                     | 0.9872               | 313                        | 0.7725                  | 1.760                               |         |
| 25           | 499.98                 | 62.844                            | -1.153                                |                       | 0.0000             | 600                     | 1.4807               | 170                        | 0.4195                  | 0.747                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-1.153</b>                         |                       | <b>0.000</b>       |                         | <b>4.640</b>         |                            | <b>28.255</b>           | <b>31.742</b>                       |         |
| 26           | 499.61                 | 61.691                            | -1.153                                | 10                    | 0.0247             | 1000                    | 2.4679               |                            | 0.0000                  | 1.340                               |         |
| 27           | 499.25                 | 59.386                            | -2.305                                | 5                     | 0.0123             | 1000                    | 2.4679               |                            | 0.0000                  | 0.175                               |         |
| 28           | 498.93                 | 57.657                            | -1.729                                | 5                     | 0.0123             | 1000                    | 2.4679               |                            | 0.0000                  | 0.751                               |         |
| 29           | 498.50                 | 56.080                            | -1.577                                | 5                     | 0.0123             | 1000                    | 2.4679               |                            | 0.0000                  | 0.903                               |         |

| Date          | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|---------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|               |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 30            | 498.14                 | 55.232                            | -0.848                                | 5                     | 0.0123             | 1000                    | 2.4679               |                            | 0.0000                  | 1.632                               |         |
| 31            | 497.73                 | 54.384                            | -0.848                                | 5                     | 0.0123             | 1000                    | 2.4679               |                            | 0.0000                  | 1.632                               |         |
| <b>1.9.08</b> | 497.31                 | 53.536                            | -0.848                                | 5                     | 0.0123             | 1000                    | 2.4679               |                            | 0.0000                  | 1.632                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-9.308</b>                         |                       | <b>0.099</b>       |                         | <b>17.275</b>        |                            | <b>0.000</b>            | <b>8.066</b>                        |         |
| 2.9.08        | 497.10                 | 53.112                            | -0.424                                | 5                     | 0.0123             | 1000                    | 2.4679               |                            | 0.0000                  | 2.056                               |         |
| 3.9.08        | 496.67                 | 52.052                            | -1.060                                | 5                     | 0.0123             | 1000                    | 2.4679               |                            | 0.0000                  | 1.420                               |         |
| 4.9.08        | 496.14                 | 50.992                            | -1.060                                | 5                     | 0.0123             | 1000                    | 2.4679               |                            | 0.0000                  | 1.420                               |         |
| 5.9.08        | 495.42                 | 49.310                            | -1.682                                | 5                     | 0.0123             | 1200                    | 2.9615               |                            | 0.0000                  | 1.292                               |         |
| 6.9.08        | 494.82                 | 48.323                            | -0.987                                | 5                     | 0.0123             | 1200                    | 2.9615               |                            | 0.0000                  | 1.987                               |         |
| 7.9.08        | 494.58                 | 47.731                            | -0.592                                | 5                     | 0.0123             | 1200                    | 2.9615               |                            | 0.0000                  | 2.382                               |         |
| 8.9.08        | 494.01                 | 46.744                            | -0.987                                | 5                     | 0.0123             | 1200                    | 2.9615               |                            | 0.0000                  | 1.987                               |         |
| 8.9.08        | 493.90                 | 46.546                            | -0.197                                | 5                     | 0.0123             | 1200                    | 2.9615               |                            | 0.0000                  | 2.776                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-6.989</b>                         |                       | <b>0.099</b>       |                         | <b>22.211</b>        |                            | <b>0.000</b>            | <b>15.320</b>                       |         |
| 9.9.08        | 493.55                 | 45.757                            | -0.790                                | 5                     | 0.0123             | 1200                    | 2.9615               |                            | 0.0000                  | 2.184                               |         |
| 10.9.08       | 492.80                 | 44.375                            | -1.382                                | 5                     | 0.0123             | 1200                    | 2.9615               |                            | 0.0000                  | 1.592                               |         |
| 11.9.08       | 492.05                 | 42.675                            | -1.700                                | 5                     | 0.0123             | 1200                    | 2.9615               |                            | 0.0000                  | 1.273                               |         |
| 12.9.08       | 491.14                 | 41.299                            | -1.376                                | 5                     | 0.0123             | 1200                    | 2.9615               |                            | 0.0000                  | 1.598                               |         |
| 13.9.08       | 489.91                 | 39.235                            | -2.064                                | 5                     | 0.0123             | 1400                    | 3.4551               |                            | 0.0000                  | 1.404                               |         |
| 14.9.08       | 489.03                 | 37.687                            | -1.548                                | 5                     | 0.0123             | 1400                    | 3.4551               |                            | 0.0000                  | 1.920                               |         |
| 15.9.08       | 488.31                 | 36.593                            | -1.094                                | 5                     | 0.0123             | 1400                    | 3.4551               |                            | 0.0000                  | 2.373                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-9.953</b>                         |                       | <b>0.086</b>       |                         | <b>22.211</b>        |                            | <b>0.000</b>            | <b>12.344</b>                       |         |
| 16.9.08       | 487.43                 | 35.210                            | -1.383                                | 5                     | 0.0123             | 1400                    | 3.4551               |                            | 0.0000                  | 2.084                               |         |
| 17.9.08       | 486.30                 | 33.520                            | -1.690                                | 25                    | 0.0617             | 1400                    | 3.4551               |                            | 0.0000                  | 1.826                               |         |
| 18.9.08       | 485.77                 | 32.598                            | -0.922                                | 25                    | 0.0617             | 1400                    | 3.4551               |                            | 0.0000                  | 2.595                               |         |
| 19.9.08       | 484.95                 | 31.488                            | -1.109                                | 25                    | 0.0617             | 1400                    | 3.4551               |                            | 0.0000                  | 2.408                               |         |
| 20.9.08       | 484.12                 | 30.396                            | -1.092                                | 125                   | 0.3085             | 1400                    | 3.4551               |                            | 0.0000                  | 2.671                               |         |
| 21.9.08       | 482.95                 | 28.758                            | -1.638                                | 125                   | 0.3085             | 1400                    | 3.4551               |                            | 0.0000                  | 2.125                               |         |
| 22.9.08       | 481.65                 | 27.096                            | -1.662                                | 150                   | 0.3702             | 1350                    | 3.3317               |                            | 0.0000                  | 2.039                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-9.497</b>                         |                       | <b>1.185</b>       |                         | <b>24.062</b>        |                            | <b>0.000</b>            | <b>15.749</b>                       |         |
| 23.9.08       | 480.35                 | 25.530                            | -1.566                                | 150                   | 0.3702             | 1350                    | 3.3317               |                            | 0.0000                  | 2.136                               |         |

| Date           | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 24.9.08        | 479.28                 | 24.204                            | -1.325                                | 160                   | 0.3949             | 1200                    | 2.9615               |                            | 0.0000                  | 2.031                               |         |
| 25.9.08        | 478.28                 | 23.119                            | -1.086                                | 160                   | 0.3949             | 1200                    | 2.9615               |                            | 0.0000                  | 2.271                               |         |
| 26.9.08        | 477.20                 | 22.063                            | -1.056                                | 170                   | 0.4195             | 1200                    | 2.9615               |                            | 0.0000                  | 2.325                               |         |
| 27.9.08        | 476.05                 | 20.796                            | -1.267                                | 170                   | 0.4195             | 1200                    | 2.9615               |                            | 0.0000                  | 2.114                               |         |
| 28.9.09        | 476.87                 | 21.641                            | 0.845                                 | 120                   | 0.2961             | 1200                    | 2.9615               |                            | 0.0000                  | 4.102                               |         |
| 29.9.08        | 482.70                 | 28.485                            | 6.845                                 | 60                    | 0.1481             | 700                     | 1.7275               |                            | 0.0000                  | 8.720                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>1.389</b>                          |                       | <b>2.443</b>       |                         | <b>19.867</b>        |                            | <b>0.000</b>            | <b>23.699</b>                       |         |
| 30.9.08        | 483.82                 | 29.987                            | 1.502                                 | 100                   | 0.2468             | 700                     | 1.7275               |                            | 0.0000                  | 3.476                               |         |
| <b>1.10.08</b> | 483.98                 | 30.123                            | 0.137                                 | 0                     | 0.0000             | 700                     | 1.7275               |                            | 0.0000                  | 1.864                               |         |
| 2.10.08        | 483.69                 | 29.714                            | -0.410                                | 0                     | 0.0000             | 700                     | 1.7275               |                            | 0.0000                  | 1.318                               |         |
| 3.10.08        | 483.17                 | 28.895                            | -0.819                                | 100                   | 0.2468             | 1200                    | 2.9615               |                            | 0.0000                  | 2.389                               |         |
| 4.10.08        | 483.00                 | 28.895                            | 0.000                                 | 100                   | 0.2468             | 1200                    | 2.9615               |                            | 0.0000                  | 3.208                               |         |
| 5.10.08        | 482.77                 | 28.485                            | -0.410                                | 140                   | 0.3455             | 1200                    | 2.9615               |                            | 0.0000                  | 2.897                               |         |
| 6.10.08        | 481.96                 | 27.457                            | -1.028                                | 150                   | 0.3702             | 1200                    | 2.9615               |                            | 0.0000                  | 2.304                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-1.028</b>                         |                       | <b>1.456</b>       |                         | <b>17.028</b>        |                            | <b>0.000</b>            | <b>17.457</b>                       |         |
| 7.10.08        | 480.79                 | 26.012                            | -1.446                                | 150                   | 0.3702             | 1200                    | 2.9615               |                            | 0.0000                  | 1.886                               |         |
| 8.10.08        | 479.81                 | 24.927                            | -1.084                                | 160                   | 0.3949             | 1200                    | 2.9615               |                            | 0.0000                  | 2.272                               |         |
| 9.10.08        | 478.74                 | 23.647                            | -1.281                                | 160                   | 0.3949             | 1200                    | 2.9615               |                            | 0.0000                  | 2.076                               |         |
| 10.10.08       | 477.50                 | 22.380                            | -1.267                                | 175                   | 0.4319             | 1200                    | 2.9615               |                            | 0.0000                  | 2.126                               |         |
| 11.10.08       | 475.86                 | 20.585                            | -1.795                                | 175                   | 0.4319             | 1200                    | 2.9615               |                            | 0.0000                  | 1.598                               |         |
| 12.10.08       | 473.65                 | 18.490                            | -2.094                                | 180                   | 0.4442             | 1300                    | 3.2083               |                            | 0.0000                  | 1.558                               |         |
| 13.10.08       | 470.71                 | 15.943                            | -2.547                                | 180                   | 0.4442             | 1400                    | 3.4551               |                            | 0.0000                  | 1.352                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-11.514</b>                        |                       | <b>2.912</b>       |                         | <b>21.471</b>        |                            | <b>0.000</b>            | <b>12.869</b>                       |         |
| 14.10.08       | 467.70                 | 13.818                            | -2.126                                | 180                   | 0.4442             | 1400                    | 3.4551               |                            | 0.0000                  | 1.774                               |         |
| 15.10.08       | 464.30                 | 11.679                            | -2.138                                | 180                   | 0.4442             | 1400                    | 3.4551               |                            | 0.0000                  | 1.761                               |         |
| 16.10.08       | 460.69                 | 9.738                             | -1.941                                | 200                   | 0.4936             | 1400                    | 3.4551               |                            | 0.0000                  | 2.008                               |         |
| 17.10.08       | 457.31                 | 8.283                             | -1.456                                | 200                   | 0.4936             | 1400                    | 3.4551               |                            | 0.0000                  | 2.493                               |         |
| 18.10.08       | 452.98                 | 6.721                             | -1.562                                | 200                   | 0.4936             | 1200                    | 2.9615               |                            | 0.0000                  | 1.893                               |         |
| 19.10.08       | 448.97                 | 5.631                             | -1.089                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.872                               |         |
| 20.10.08       | 446.08                 | 4.915                             | -0.717                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 2.245                               |         |

| Date           | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b>   |                        |                                   | <b>-11.029</b>                        |                       | <b>3.356</b>       |                         | <b>21.717</b>        |                            | <b>0.000</b>            | <b>14.045</b>                       |         |
| 21.10.08       | 445.78                 | 4.842                             | -0.073                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.421                               |         |
| 22.10.08       | 444.90                 | 4.647                             | -0.195                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.299                               |         |
| 23.10.08       | 442.49                 | 4.036                             | -0.611                                | 200                   | 0.4936             | 400                     | 0.9872               |                            | 0.0000                  | 0.870                               |         |
| 24.10.08       | 439.94                 | 3.419                             | -0.618                                | 200                   | 0.4936             | 400                     | 0.9872               |                            | 0.0000                  | 0.863                               |         |
| 25.10.08       | 437.36                 | 2.780                             | -0.639                                | 200                   | 0.4936             | 400                     | 0.9872               |                            | 0.0000                  | 0.842                               |         |
| 26.10.08       | 435.63                 | 2.406                             | -0.374                                | 200                   | 0.4936             | 400                     | 0.9872               |                            | 0.0000                  | 1.107                               |         |
| 27.10.08       | 435.13                 | 2.267                             | -0.139                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.355                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-2.648</b>                         |                       | <b>3.455</b>       |                         | <b>3.949</b>         |                            | <b>0.000</b>            | <b>4.756</b>                        |         |
| 28.10.08       | 434.65                 | 2.174                             | -0.093                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.401                               |         |
| 29.10.08       | 434.00                 | 2.012                             | -0.162                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.331                               |         |
| 30.10.08       | 433.13                 | 1.827                             | -0.185                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.308                               |         |
| 31.10.08       | 432.80                 | 1.758                             | -0.068                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.425                               |         |
| <b>1.11.08</b> | 432.50                 | 1.690                             | -0.068                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.302                               |         |
| 2              | 432.30                 | 1.644                             | -0.046                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.325                               |         |
| 3              | 432.00                 | 1.576                             | -0.068                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.302                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-0.691</b>                         |                       | <b>3.085</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>2.394</b>                        |         |
| 4              | 431.70                 | 1.508                             | -0.068                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.302                               |         |
| 5              | 431.30                 | 1.416                             | -0.091                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.279                               |         |
| 6              | 431.00                 | 1.348                             | -0.068                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.302                               |         |
| 7              | 430.70                 | 1.280                             | -0.068                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.302                               |         |
| 8              | 430.50                 | 1.234                             | -0.046                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.325                               |         |
| 9              | 430.20                 | 1.166                             | -0.068                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.302                               |         |
| 10             | 430.00                 | 1.120                             | -0.046                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.325                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-0.456</b>                         |                       | <b>2.591</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>2.136</b>                        |         |
| 11             | 429.80                 | 1.075                             | -0.046                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.325                               |         |
| 12             | 429.80                 | 1.075                             | 0.000                                 |                       | 0.0000             | 18                      | 0.0444               |                            | 0.0000                  | 0.044                               |         |
| 13             | 429.80                 | 1.075                             | 0.000                                 |                       | 0.0000             | 18                      | 0.0444               |                            | 0.0000                  | 0.044                               |         |
| 14             | 429.80                 | 1.075                             | 0.000                                 |                       | 0.0000             | 18                      | 0.0444               |                            | 0.0000                  | 0.044                               |         |
| 15             | 429.70                 | 1.052                             | -0.022                                |                       | 0.0000             | 18                      | 0.0444               |                            | 0.0000                  | 0.022                               |         |

| Date           | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 16             | 429.70                 | 1.052                             | 0.000                                 |                       | 0.0000             | 18                      | 0.0444               |                            | 0.0000                  | 0.044                               |         |
| 17             | 429.70                 | 1.052                             | 0.000                                 |                       | 0.0000             | 18                      | 0.0444               |                            | 0.0000                  | 0.044                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-0.068</b>                         |                       | <b>0.370</b>       |                         | <b>0.267</b>         |                            | <b>0.000</b>            | <b>0.569</b>                        |         |
| 18             | 429.60                 | 1.030                             | -0.022                                |                       | 0.0000             | 18                      | 0.0444               |                            | 0.0000                  | 0.022                               |         |
| 19             | 429.60                 | 1.030                             | 0.000                                 |                       | 0.0000             | 18                      | 0.0444               |                            | 0.0000                  | 0.044                               |         |
| 20             | 429.60                 | 1.030                             | 0.000                                 |                       | 0.0000             | 16                      | 0.0395               |                            | 0.0000                  | 0.039                               |         |
| 21             | 429.60                 | 1.030                             | 0.000                                 |                       | 0.0000             | 16                      | 0.0395               |                            | 0.0000                  | 0.039                               |         |
| 22             | 429.50                 | 0.985                             | -0.045                                |                       | 0.0000             | 16                      | 0.0395               |                            | 0.0000                  | 0.000                               |         |
| 23             | 429.50                 | 0.985                             | 0.000                                 |                       | 0.0000             | 16                      | 0.0395               |                            | 0.0000                  | 0.039                               |         |
| 24             | 429.50                 | 0.985                             | 0.000                                 |                       | 0.0000             | 16                      | 0.0395               |                            | 0.0000                  | 0.039                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-0.067</b>                         |                       | <b>0.000</b>       |                         | <b>0.286</b>         |                            | <b>0.000</b>            | <b>0.224</b>                        |         |
| 25             | 429.40                 | 0.985                             | 0.000                                 |                       | 0.0000             | 16                      | 0.0395               |                            | 0.0000                  | 0.039                               |         |
| 26             | 429.40                 | 0.985                             | 0.000                                 |                       | 0.0000             | 16                      | 0.0395               |                            | 0.0000                  | 0.039                               |         |
| 27             | 429.40                 | 0.985                             | 0.000                                 |                       | 0.0000             | 16                      | 0.0395               |                            | 0.0000                  | 0.039                               |         |
| 28             | 429.30                 | 0.963                             | -0.022                                |                       | 0.0000             | 16                      | 0.0395               |                            | 0.0000                  | 0.017                               |         |
| 29             | 429.30                 | 0.963                             | 0.000                                 |                       | 0.0000             | 16                      | 0.0395               |                            | 0.0000                  | 0.039                               |         |
| 30             | 429.20                 | 0.940                             | -0.022                                |                       | 0.0000             | 16                      | 0.0395               |                            | 0.0000                  | 0.017                               |         |
| <b>1.12.08</b> | 429.20                 | 0.940                             | 0.000                                 |                       | 0.0000             | 16                      | 0.0395               |                            | 0.0000                  | 0.039                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-0.045</b>                         |                       | <b>0.000</b>       |                         | <b>0.276</b>         |                            | <b>0.000</b>            | <b>0.232</b>                        |         |
| 2.12.08        | 429.20                 | 0.940                             | 0.000                                 |                       | 0.0000             | 16                      | 0.0395               |                            | 0.0000                  | 0.039                               |         |
| 3.12.08        | 429.10                 | 0.918                             | -0.022                                |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.015                               |         |
| 4.12.08        | 429.10                 | 0.918                             | 0.000                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.037                               |         |
| 5.12.08        | 429.00                 | 0.895                             | -0.022                                |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.015                               |         |
| 6.12.08        | 429.00                 | 0.895                             | 0.000                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.037                               |         |
| 7.12.08        | 429.00                 | 0.895                             | 0.000                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.037                               |         |
| 8.12.08        | 428.90                 | 0.873                             | -0.022                                |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.015                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-0.067</b>                         |                       | <b>0.000</b>       |                         | <b>0.262</b>         |                            | <b>0.000</b>            | <b>0.194</b>                        |         |
| 9.12.08        | 428.80                 | 0.851                             | -0.022                                |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.015                               |         |
| 10.12.08       | 428.80                 | 0.851                             | 0.000                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.037                               |         |
| 11.12.08       | 428.80                 | 0.851                             | 0.000                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.037                               |         |

| Date          | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|---------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|               |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 12.12.08      | 428.80                 | 0.851                             | 0.000                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.037                               |         |
| 13.12.08      | 428.70                 | 0.828                             | -0.022                                |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.015                               |         |
| 14.12.08      | 428.70                 | 0.828                             | 0.000                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.037                               |         |
| 15.12.08      | 428.60                 | 0.806                             | -0.022                                |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.015                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-0.067</b>                         |                       | <b>0.000</b>       |                         | <b>0.259</b>         |                            | <b>0.000</b>            | <b>0.192</b>                        |         |
| 16.12.08      | 428.60                 | 0.806                             | 0.000                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.037                               |         |
| 17.12.08      | 428.60                 | 0.806                             | 0.000                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.037                               |         |
| 18.12.08      | 428.50                 | 0.783                             | -0.022                                |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.015                               |         |
| 19.12.08      | 428.50                 | 0.783                             | 0.000                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.037                               |         |
| 20.12.08      | 428.50                 | 0.783                             | 0.000                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.037                               |         |
| 21.12.08      | 428.40                 | 0.739                             | -0.045                                |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.000                               |         |
| 22.12.08      | 428.40                 | 0.739                             | 0.000                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.037                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-0.067</b>                         |                       | <b>0.000</b>       |                         | <b>0.259</b>         |                            | <b>0.000</b>            | <b>0.200</b>                        |         |
| 23.12.08      | 428.30                 | 0.739                             | 0.000                                 |                       | 0.0000             | 12                      | 0.0296               |                            | 0.0000                  | 0.030                               |         |
| 24.12.08      | 428.30                 | 0.739                             | 0.000                                 |                       | 0.0000             | 12                      | 0.0296               |                            | 0.0000                  | 0.030                               |         |
| 25.12.08      | 428.20                 | 0.716                             | -0.022                                |                       | 0.0000             | 12                      | 0.0296               |                            | 0.0000                  | 0.007                               |         |
| 26.12.08      | 428.20                 | 0.716                             | 0.000                                 |                       | 0.0000             | 12                      | 0.0296               |                            | 0.0000                  | 0.030                               |         |
| 27.12.08      | 428.20                 | 0.716                             | 0.000                                 |                       | 0.0000             | 12                      | 0.0296               |                            | 0.0000                  | 0.030                               |         |
| 28.12.08      | 428.20                 | 0.716                             | 0.000                                 |                       | 0.0000             | 12                      | 0.0296               |                            | 0.0000                  | 0.030                               |         |
| 29.12.08      | 428.10                 | 0.694                             | -0.022                                |                       | 0.0000             | 12                      | 0.0296               |                            | 0.0000                  | 0.007                               |         |
| 30.12.08      | 428.10                 | 0.694                             | 0.000                                 |                       | 0.0000             | 12                      | 0.0296               |                            | 0.0000                  | 0.030                               |         |
| 31.12.08      | 428.00                 | 0.671                             | -0.022                                |                       | 0.0000             | 10                      | 0.0247               |                            | 0.0000                  | 0.002                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-0.067</b>                         |                       | <b>0.000</b>       |                         | <b>0.262</b>         |                            | <b>0.000</b>            | <b>0.194</b>                        |         |
| <b>1.1.09</b> | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 10                      | 0.0247               |                            | 0.0000                  | 0.025                               |         |
| 2.1.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 10                      | 0.0247               |                            | 0.0000                  | 0.025                               |         |
| 3.1.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 10                      | 0.0247               |                            | 0.0000                  | 0.025                               |         |
| 4.1.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 10                      | 0.0247               |                            | 0.0000                  | 0.025                               |         |
| 5.1.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 10                      | 0.0247               |                            | 0.0000                  | 0.025                               |         |
| 6.1.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 10                      | 0.0247               |                            | 0.0000                  | 0.025                               |         |
| 7.1.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 10                      | 0.0247               |                            | 0.0000                  | 0.025                               |         |

| Date          | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|---------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|               |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.173</b>         |                            | <b>0.000</b>            | <b>0.173</b>                        |         |
| 8.1.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 10                      | 0.0247               |                            | 0.0000                  | 0.025                               |         |
| 9.1.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 10.1.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 11.1.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 12.1.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 13.1.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 14.1.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.143</b>         |                            | <b>0.000</b>            | <b>0.143</b>                        |         |
| 15.1.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 16.1.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 17.1.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 18.1.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 19.1.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 20.1.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 21.1.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.138</b>         |                            | <b>0.000</b>            | <b>0.138</b>                        |         |
| 22.1.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 23.1.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 24.1.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 25.1.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 26.1.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 27.1.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 28.1.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.138</b>         |                            | <b>0.000</b>            | <b>0.138</b>                        |         |
| 29.1.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 30.1.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 31.1.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| <b>1.2.09</b> | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 2.2.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 3.2.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 4.2.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.138</b>         |                            | <b>0.000</b>            | <b>0.138</b>                        |         |
| 5.2.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 6.2.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 7.2.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 8.2.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 9.2.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 10.2.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 11.2.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.138</b>         |                            | <b>0.000</b>            | <b>0.138</b>                        |         |
| 12.2.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 13.2.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 14.2.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 15.2.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 16.2.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 17.2.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 18.2.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.138</b>         |                            | <b>0.000</b>            | <b>0.138</b>                        |         |
| 19.2.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 20.2.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 21.2.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 22.2.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 23.2.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 24.2.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 25.2.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.138</b>         |                            | <b>0.000</b>            | <b>0.138</b>                        |         |
| 26.2.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 27.2.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 28.2.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |



| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 1.3.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 2.3.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 3.3.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 4.3.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.138</b>         |                            | <b>0.000</b>            | <b>0.138</b>                        |         |
| 5.3.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 6.3.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 7.3.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 8.3.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 9.3.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 10.3.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 11.3.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.138</b>         |                            | <b>0.000</b>            | <b>0.138</b>                        |         |
| 12.3.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 13.3.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 14.3.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 15.3.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 16.3.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 17.3.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 18.3.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.138</b>         |                            | <b>0.000</b>            | <b>0.138</b>                        |         |
| 19.3.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 8                       | 0.0197               |                            | 0.0000                  | 0.020                               |         |
| 20.3.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 6                       | 0.0148               |                            | 0.0000                  | 0.015                               |         |
| 21.3.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 6                       | 0.0148               |                            | 0.0000                  | 0.015                               |         |
| 22.3.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 6                       | 0.0148               |                            | 0.0000                  | 0.015                               |         |
| 23.3.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 6                       | 0.0148               |                            | 0.0000                  | 0.015                               |         |
| 24.3.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 6                       | 0.0148               |                            | 0.0000                  | 0.015                               |         |
| 25.3.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 6                       | 0.0148               |                            | 0.0000                  | 0.015                               |         |
| <b>TOTAL</b> |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.109</b>         |                            | <b>0.000</b>            | <b>0.109</b>                        |         |
| 26.3.09      | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 6                       | 0.0148               |                            | 0.0000                  | 0.015                               |         |

| Date          | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|---------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|               |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 27.3.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 6                       | 0.0148               |                            | 0.0000                  | 0.015                               |         |
| 28.3.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 6                       | 0.0148               |                            | 0.0000                  | 0.015                               |         |
| 29.3.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 6                       | 0.0148               |                            | 0.0000                  | 0.015                               |         |
| 30.3.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 6                       | 0.0148               |                            | 0.0000                  | 0.015                               |         |
| 31.3.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 6                       | 0.0148               |                            | 0.0000                  | 0.015                               |         |
| <b>1.4.09</b> | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 6                       | 0.0148               |                            | 0.0000                  | 0.015                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.104</b>         |                            | <b>0.000</b>            | <b>0.104</b>                        |         |
| 2.4.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 4                       | 0.0099               |                            | 0.0000                  | 0.010                               |         |
| 3.4.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 4                       | 0.0099               |                            | 0.0000                  | 0.010                               |         |
| 4.4.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 4                       | 0.0099               |                            | 0.0000                  | 0.010                               |         |
| 5.4.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 4                       | 0.0099               |                            | 0.0000                  | 0.010                               |         |
| 6.4.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 4                       | 0.0099               |                            | 0.0000                  | 0.010                               |         |
| 7.4.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 4                       | 0.0099               |                            | 0.0000                  | 0.010                               |         |
| 8.4.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 4                       | 0.0099               |                            | 0.0000                  | 0.010                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.069</b>         |                            | <b>0.000</b>            | <b>0.069</b>                        |         |
| 9.4.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 4                       | 0.0099               |                            | 0.0000                  | 0.010                               |         |
| 10.4.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 3                       | 0.0074               |                            | 0.0000                  | 0.007                               |         |
| 11.4.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 3                       | 0.0074               |                            | 0.0000                  | 0.007                               |         |
| 12.4.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 3                       | 0.0074               |                            | 0.0000                  | 0.007                               |         |
| 13.4.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 3                       | 0.0074               |                            | 0.0000                  | 0.007                               |         |
| 14.4.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 3                       | 0.0074               |                            | 0.0000                  | 0.007                               |         |
| 15.4.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 3                       | 0.0074               |                            | 0.0000                  | 0.007                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.054</b>         |                            | <b>0.000</b>            | <b>0.054</b>                        |         |
| 16.4.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 3                       | 0.0074               |                            | 0.0000                  | 0.007                               |         |
| 17.4.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 3                       | 0.0074               |                            | 0.0000                  | 0.007                               |         |
| 18.4.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 3                       | 0.0074               |                            | 0.0000                  | 0.007                               |         |
| 19.4.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 3                       | 0.0074               |                            | 0.0000                  | 0.007                               |         |
| 20.4.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 3                       | 0.0074               |                            | 0.0000                  | 0.007                               |         |
| 21.4.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 3                       | 0.0074               |                            | 0.0000                  | 0.007                               |         |
| 22.4.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 3                       | 0.0074               |                            | 0.0000                  | 0.007                               |         |

| Date          | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|---------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|               |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.052</b>         |                            | <b>0.000</b>            | <b>0.052</b>                        |         |
| 23.4.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 3                       | 0.0074               |                            | 0.0000                  | 0.007                               |         |
| 24.4.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 3                       | 0.0074               |                            | 0.0000                  | 0.007                               |         |
| 25.4.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 3                       | 0.0074               |                            | 0.0000                  | 0.007                               |         |
| 26.4.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 3                       | 0.0074               |                            | 0.0000                  | 0.007                               |         |
| 27.4.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 3                       | 0.0074               |                            | 0.0000                  | 0.007                               |         |
| 28.4.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 3                       | 0.0074               |                            | 0.0000                  | 0.007                               |         |
| 29.4.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 3                       | 0.0074               |                            | 0.0000                  | 0.007                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.052</b>         |                            | <b>0.000</b>            | <b>0.052</b>                        |         |
| 30.4.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             | 3                       | 0.0074               |                            | 0.0000                  | 0.007                               |         |
| <b>1.5.09</b> | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2.5.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3.5.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4.5.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5.5.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6.5.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.007</b>         |                            | <b>0.000</b>            | <b>0.007</b>                        |         |
| 7.5.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8.5.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9.5.09        | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10.5.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11.5.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12.5.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13.5.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 14.5.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15.5.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16.5.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17.5.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18.5.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date          | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|---------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|               |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 19.5.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20.5.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 21.5.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22.5.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23.5.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24.5.09       | 428.00                 | 0.671                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25.5.09       | 429.20                 | 0.940                             | 0.269                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.269                               |         |
| 26.5.09       | 429.40                 | 0.985                             | 0.045                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.045                               |         |
| 27.5.09       | 429.50                 | 0.985                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.314</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.314</b>                        |         |
| 28.5.09       | 430.00                 | 1.120                             | 0.135                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.135                               |         |
| 29.5.09       | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30.5.09       | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 31.5.09       | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>1.6.09</b> | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2.6.09        | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 3.6.09        | 430.00                 | 1.120                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.135</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.135</b>                        |         |
| 4.6.09        | 431.20                 | 1.394                             | 0.273                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.273                               |         |
| 5.6.09        | 432.00                 | 1.576                             | 0.182                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.182                               |         |
| 6.6.09        | 432.30                 | 1.644                             | 0.068                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.068                               |         |
| 7.6.09        | 432.70                 | 1.735                             | 0.091                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.091                               |         |
| 8.6.09        | 434.10                 | 2.058                             | 0.323                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.323                               |         |
| 9.6.09        | 434.10                 | 2.058                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 10.6.09       | 434.10                 | 2.058                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.938</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.938</b>                        |         |
| 11.6.09       | 434.10                 | 2.058                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12.6.09       | 434.10                 | 2.058                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13.6.09       | 434.10                 | 2.058                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date          | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|---------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|               |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 14.6.09       | 434.10                 | 2.058                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 15.6.09       | 434.10                 | 2.058                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16.6.09       | 434.10                 | 2.058                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17.6.09       | 434.10                 | 2.058                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 18.6.09       | 434.10                 | 2.058                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19.6.09       | 434.10                 | 2.058                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20.6.09       | 434.10                 | 2.058                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21.6.09       | 434.09                 | 2.012                             | -0.046                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22.6.09       | 436.53                 | 2.615                             | 0.603                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.603                               |         |
| 23.6.09       | 436.60                 | 2.639                             | 0.024                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.024                               |         |
| 24.6.09       | 436.60                 | 2.639                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.580</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.627</b>                        |         |
| 25.6.09       | 436.60                 | 2.639                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26.6.09       | 436.60                 | 2.639                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27.6.09       | 436.60                 | 2.639                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28.6.09       | 436.60                 | 2.639                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29.6.09       | 436.60                 | 2.639                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30.6.09       | 436.60                 | 2.639                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>1.7.09</b> | 436.60                 | 2.639                             | 0.000                                 |                       | 0.0000             | 12                      | 0.0296               |                            | 0.0000                  | 0.030                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.000</b>                          |                       | <b>0.000</b>       |                         | <b>0.030</b>         |                            | <b>0.000</b>            | <b>0.030</b>                        |         |
| 2.7.09        | 436.60                 | 2.639                             | 0.000                                 |                       | 0.0000             | 12                      | 0.0296               |                            | 0.0000                  | 0.030                               |         |
| 3.7.09        | 436.84                 | 2.686                             | 0.047                                 |                       | 0.0000             | 12                      | 0.0296               |                            | 0.0000                  | 0.077                               |         |
| 4.7.09        | 440.92                 | 3.666                             | 0.980                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 1.017                               |         |
| 5.7.09        | 441.40                 | 3.789                             | 0.124                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.161                               |         |
| 6.7.09        | 441.40                 | 3.789                             | 0.000                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.037                               |         |
| 7.7.09        | 441.40                 | 3.789                             | 0.000                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.037                               |         |
| 8.7.09        | 442.17                 | 3.962                             | 0.173                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.210                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>1.324</b>                          |                       | <b>0.000</b>       |                         | <b>0.244</b>         |                            | <b>0.000</b>            | <b>1.568</b>                        |         |
| 9.7.09        | 443.70                 | 4.355                             | 0.392                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.429                               |         |

| Date          | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|---------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|               |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 10.7.09       | 445.74                 | 4.842                             | 0.487                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.524                               |         |
| 11.7.09       | 446.00                 | 4.915                             | 0.073                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.110                               |         |
| 12.7.09       | 446.00                 | 4.915                             | 0.000                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.037                               |         |
| 13.7.09       | 446.00                 | 4.915                             | 0.000                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.037                               |         |
| 14.7.09       | 446.00                 | 4.915                             | 0.000                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.037                               |         |
| 15.7.09       | 446.00                 | 4.915                             | 0.000                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.037                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.953</b>                          |                       | <b>0.000</b>       |                         | <b>0.259</b>         |                            | <b>0.000</b>            | <b>1.212</b>                        |         |
| 16.7.09       | 446.00                 | 4.915                             | 0.000                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.037                               |         |
| 17.7.09       | 446.00                 | 4.915                             | 0.000                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.037                               |         |
| 18.7.09       | 446.00                 | 4.915                             | 0.000                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.037                               |         |
| 19.7.09       | 446.00                 | 4.915                             | 0.000                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.037                               |         |
| 20.7.09       | 448.50                 | 5.532                             | 0.618                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.655                               |         |
| 21.7.09       | 453.89                 | 7.020                             | 1.488                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 1.525                               |         |
| 22.7.09       | 455.45                 | 7.552                             | 0.532                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.569                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>2.638</b>                          |                       | <b>0.000</b>       |                         | <b>0.259</b>         |                            | <b>0.000</b>            | <b>2.897</b>                        |         |
| 23.7.09       | 455.70                 | 7.652                             | 0.100                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.137                               |         |
| 24.7.09       | 455.88                 | 7.686                             | 0.033                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.070                               |         |
| 25.7.09       | 456.43                 | 7.868                             | 0.183                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.220                               |         |
| 26.7.09       | 456.50                 | 7.951                             | 0.083                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.120                               |         |
| 27.7.09       | 456.55                 | 7.951                             | 0.000                                 |                       | 0.0000             | 15                      | 0.0370               |                            | 0.0000                  | 0.037                               |         |
| 28.7.09       | 456.83                 | 8.075                             | 0.124                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.248                               |         |
| 29.7.09       | 457.05                 | 8.158                             | 0.083                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.206                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>0.606</b>                          |                       | <b>0.247</b>       |                         | <b>0.185</b>         |                            | <b>0.000</b>            | <b>1.038</b>                        |         |
| 30.7.09       | 457.10                 | 8.200                             | 0.041                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.288                               |         |
| 31.7.09       | 457.20                 | 8.241                             | 0.041                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.288                               |         |
| <b>1.8.09</b> | 457.15                 | 8.200                             | -0.041                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.329                               |         |
| 2.8.09        | 456.62                 | 7.993                             | -0.207                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.286                               |         |
| 3.8.09        | 454.76                 | 7.320                             | -0.673                                | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 1.301                               |         |
| 4.8.09        | 452.45                 | 6.577                             | -0.742                                | 225                   | 0.5553             | 600                     | 1.4807               |                            | 0.0000                  | 1.294                               |         |
| 5.8.09        | 450.21                 | 5.972                             | -0.605                                | 250                   | 0.6170             | 600                     | 1.4807               |                            | 0.0000                  | 1.493                               |         |

| Date         | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b> |                        |                                   | <b>-2.186</b>                         |                       | <b>3.023</b>       |                         | <b>4.442</b>         |                            | <b>0.000</b>            | <b>5.279</b>                        |         |
| 6.8.09       | 449.43                 | 5.755                             | -0.217                                | 250                   | 0.6170             | 600                     | 1.4807               |                            | 0.0000                  | 1.880                               |         |
| 7.8.09       | 452.84                 | 6.687                             | 0.932                                 | 250                   | 0.6170             | 600                     | 1.4807               |                            | 0.0000                  | 3.030                               |         |
| 8.8.09       | 452.28                 | 6.522                             | -0.165                                | 250                   | 0.6170             | 600                     | 1.4807               |                            | 0.0000                  | 1.933                               |         |
| 9.8.09       | 450.54                 | 6.055                             | -0.468                                | 250                   | 0.6170             | 600                     | 1.4807               |                            | 0.0000                  | 1.630                               |         |
| 10.8.09      | 448.24                 | 5.458                             | -0.597                                | 250                   | 0.6170             | 600                     | 1.4807               |                            | 0.0000                  | 1.501                               |         |
| 11.8.09      | 445.48                 | 4.768                             | -0.690                                | 275                   | 0.6787             | 600                     | 1.4807               |                            | 0.0000                  | 1.470                               |         |
| 12.8.09      | 442.83                 | 4.135                             | -0.633                                | 275                   | 0.6787             | 600                     | 1.4807               |                            | 0.0000                  | 1.526                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-1.837</b>                         |                       | <b>4.442</b>       |                         | <b>10.365</b>        |                            | <b>0.000</b>            | <b>12.970</b>                       |         |
| 13.8.09      | 440.01                 | 3.443                             | -0.692                                | 275                   | 0.6787             | 600                     | 1.4807               |                            | 0.0000                  | 1.468                               |         |
| 14.8.09      | 437.84                 | 2.921                             | -0.522                                | 275                   | 0.6787             | 600                     | 1.4807               |                            | 0.0000                  | 1.637                               |         |
| 15.8.09      | 435.12                 | 2.267                             | -0.654                                | 225                   | 0.5553             | 600                     | 1.4807               |                            | 0.0000                  | 1.382                               |         |
| 16.8.09      | 432.85                 | 1.758                             | -0.509                                | 225                   | 0.5553             | 600                     | 1.4807               |                            | 0.0000                  | 1.527                               |         |
| 17.8.09      | 433.50                 | 1.919                             | 0.161                                 | 225                   | 0.5553             |                         | 0.0000               |                            | 0.0000                  | 0.716                               |         |
| 18.8.09      | 433.66                 | 1.942                             | 0.023                                 | 225                   | 0.5553             |                         | 0.0000               |                            | 0.0000                  | 0.578                               |         |
| 19.8.09      | 433.25                 | 1.850                             | -0.093                                | 225                   | 0.5553             |                         | 0.0000               |                            | 0.0000                  | 0.463                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-2.285</b>                         |                       | <b>4.134</b>       |                         | <b>5.923</b>         |                            | <b>0.000</b>            | <b>7.771</b>                        |         |
| 20.8.09      | 435.64                 | 2.406                             | 0.556                                 | 225                   | 0.5553             |                         | 0.0000               |                            | 0.0000                  | 1.112                               |         |
| 21.8.09      | 438.70                 | 3.133                             | 0.727                                 | 225                   | 0.5553             |                         | 0.0000               |                            | 0.0000                  | 1.283                               |         |
| 22.8.09      | 438.96                 | 3.181                             | 0.047                                 | 225                   | 0.5553             |                         | 0.0000               |                            | 0.0000                  | 0.602                               |         |
| 23.8.09      | 438.63                 | 3.110                             | -0.071                                | 225                   | 0.5553             |                         | 0.0000               |                            | 0.0000                  | 0.485                               |         |
| 24.8.09      | 442.59                 | 4.061                             | 0.951                                 | 225                   | 0.5553             |                         | 0.0000               |                            | 0.0000                  | 1.506                               |         |
| 25.8.09      | 448.09                 | 5.409                             | 1.348                                 | 225                   | 0.5553             |                         | 0.0000               |                            | 0.0000                  | 1.903                               |         |
| 26.8.09      | 448.48                 | 5.508                             | 0.099                                 | 225                   | 0.5553             |                         | 0.0000               |                            | 0.0000                  | 0.654                               |         |
| <b>TOTAL</b> |                        |                                   | <b>3.658</b>                          |                       | <b>3.887</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>7.545</b>                        |         |
| 27.8.09      | 449.13                 | 5.681                             | 0.173                                 | 225                   | 0.5553             |                         | 0.0000               |                            | 0.0000                  | 0.728                               |         |
| 28.8.09      | 452.20                 | 6.522                             | 0.842                                 | 225                   | 0.5553             |                         | 0.0000               |                            | 0.0000                  | 1.397                               |         |
| 29.8.09      | 454.36                 | 7.186                             | 0.664                                 | 225                   | 0.5553             |                         | 0.0000               |                            | 0.0000                  | 1.219                               |         |
| 30.8.09      | 454.80                 | 7.353                             | 0.166                                 | 225                   | 0.5553             |                         | 0.0000               |                            | 0.0000                  | 0.722                               |         |
| 31.8.09      | 454.80                 | 7.353                             | 0.000                                 | 225                   | 0.5553             |                         | 0.0000               |                            | 0.0000                  | 0.555                               |         |

| Date         | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 1.9.09       | 455.17                 | 7.453                             | 0.100                                 | 225                   | 0.5553             |                         | 0.0000               |                            | 0.0000                  | 0.655                               |         |
| 2.9.09       | 455.74                 | 7.652                             | 0.200                                 | 225                   | 0.5553             |                         | 0.0000               |                            | 0.0000                  | 0.755                               |         |
| <b>TOTAL</b> |                        |                                   | <b>2.145</b>                          |                       | <b>3.887</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>6.032</b>                        |         |
| 3.9.09       | 456.00                 | 7.752                             | 0.100                                 | 225                   | 0.5553             |                         | 0.0000               |                            | 0.0000                  | 0.655                               |         |
| 4.9.09       | 456.35                 | 7.868                             | 0.116                                 | 225                   | 0.5553             |                         | 0.0000               |                            | 0.0000                  | 0.671                               |         |
| 5.9.09       | 456.58                 | 7.951                             | 0.083                                 | 225                   | 0.5553             |                         | 0.0000               |                            | 0.0000                  | 0.638                               |         |
| 6.9.09       | 463.10                 | 10.990                            | 3.039                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 3.286                               |         |
| 7.9.09       | 470.43                 | 15.785                            | 4.795                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 5.041                               |         |
| 8.9.09       | 474.72                 | 19.532                            | 3.747                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 3.871                               |         |
| 9.9.09       | 481.49                 | 26.855                            | 7.323                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 7.446                               |         |
| <b>TOTAL</b> |                        |                                   | <b>19.203</b>                         |                       | <b>2.406</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>21.609</b>                       |         |
| 10.9.09      | 485.75                 | 32.598                            | 5.743                                 |                       | 0.0000             | 50                      | 0.1234               |                            | 0.0000                  | 5.866                               |         |
| 11.9.09      | 487.60                 | 35.517                            | 2.920                                 |                       | 0.0000             | 50                      | 0.1234               |                            | 0.0000                  | 3.043                               |         |
| 12.9.09      | 488.33                 | 36.593                            | 1.076                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 1.076                               |         |
| 13.9.09      | 488.89                 | 37.361                            | 0.768                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.768                               |         |
| 14.9.09      | 489.00                 | 37.687                            | 0.326                                 | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.572                               |         |
| 15.9.09      | 489.00                 | 37.687                            | 0.000                                 | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.494                               |         |
| 16.9.09      | 489.10                 | 37.859                            | 0.172                                 | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.666                               |         |
| <b>TOTAL</b> |                        |                                   | <b>11.004</b>                         |                       | <b>1.234</b>       |                         | <b>0.247</b>         |                            | <b>0.000</b>            | <b>12.485</b>                       |         |
| 17.9.09      | 489.52                 | 38.547                            | 0.688                                 | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 1.182                               |         |
| 18.9.09      | 490.60                 | 40.439                            | 1.892                                 | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 2.385                               |         |
| 19.9.09      | 491.69                 | 42.159                            | 1.720                                 | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 2.213                               |         |
| 20.9.09      | 492.00                 | 42.675                            | 0.516                                 | 300                   | 0.7404             |                         | 0.0000               |                            | 0.0000                  | 1.256                               |         |
| 21.9.09      | 492.35                 | 43.388                            | 0.713                                 | 300                   | 0.7404             |                         | 0.0000               |                            | 0.0000                  | 1.454                               |         |
| 22.9.09      | 494.33                 | 47.336                            | 3.948                                 | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 4.442                               |         |
| 23.9.09      | 494.90                 | 48.521                            | 1.184                                 | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 1.678                               |         |
| <b>TOTAL</b> |                        |                                   | <b>10.661</b>                         |                       | <b>3.949</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>14.610</b>                       |         |
| 24.9.09      | 495.20                 | 49.113                            | 0.592                                 | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 1.086                               |         |
| 25.9.09      | 495.45                 | 49.310                            | 0.197                                 | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.691                               |         |
| 26.9.09      | 495.49                 | 49.310                            | 0.000                                 | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 1.974                               |         |



| Date           | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 27.9.09        | 495.25                 | 49.113                            | -0.197                                | 200                   | 0.4936             | 600                     | 1.4807               |                            | 0.0000                  | 1.777                               |         |
| 28.9.09        | 494.90                 | 48.521                            | -0.592                                | 300                   | 0.7404             | 600                     | 1.4807               |                            | 0.0000                  | 1.629                               |         |
| 29.9.09        | 494.47                 | 47.534                            | -0.987                                | 300                   | 0.7404             | 600                     | 1.4807               |                            | 0.0000                  | 1.234                               |         |
| 30.9.09        | 494.18                 | 46.941                            | -0.592                                | 300                   | 0.7404             | 1000                    | 2.4679               |                            | 0.0000                  | 2.616                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-1.579</b>                         |                       | <b>4.195</b>       |                         | <b>8.391</b>         |                            | <b>0.000</b>            | <b>11.007</b>                       |         |
| <b>1.10.09</b> | 493.45                 | 45.559                            | -1.382                                | 300                   | 0.7404             | 1000                    | 2.4679               |                            | 0.0000                  | 1.826                               |         |
| 2.10.09        | 492.55                 | 43.783                            | -1.777                                | 300                   | 0.7404             | 1000                    | 2.4679               |                            | 0.0000                  | 1.432                               |         |
| 3.10.09        | 491.60                 | 42.159                            | -1.624                                | 325                   | 0.8021             | 1000                    | 2.4679               |                            | 0.0000                  | 1.646                               |         |
| 4.10.09        | 491.76                 | 42.331                            | 0.172                                 | 325                   | 0.8021             | 1000                    | 2.4679               |                            | 0.0000                  | 3.442                               |         |
| 5.10.09        | 493.28                 | 45.165                            | 2.834                                 | 325                   | 0.8021             | 1000                    | 2.4679               |                            | 0.0000                  | 6.104                               |         |
| 6.10.09        | 493.86                 | 46.349                            | 1.184                                 | 150                   | 0.3702             | 1000                    | 2.4679               |                            | 0.0000                  | 4.023                               |         |
| 7.10.09        | 494.71                 | 48.126                            | 1.777                                 | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 4.738                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>1.184</b>                          |                       | <b>4.751</b>       |                         | <b>17.275</b>        |                            | <b>0.000</b>            | <b>23.210</b>                       |         |
| 8.10.09        | 498.94                 | 57.657                            | 9.531                                 | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 12.493                              |         |
| 9.10.09        | 500.16                 | 64.390                            | 6.733                                 | 200                   | 0.4936             | 1000                    | 2.4679               | 60                         | 0.1481                  | 9.842                               |         |
| 10.10.09       | 500.05                 | 63.997                            | -0.393                                | 200                   | 0.4936             | 1000                    | 2.4679               | 60                         | 0.1481                  | 2.717                               |         |
| 11.10.09       | 499.73                 | 62.268                            | -1.729                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.232                               |         |
| 12.10.09       | 499.28                 | 59.386                            | -2.882                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 0.080                               |         |
| 13.10.09       | 498.84                 | 56.504                            | -2.882                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 0.080                               |         |
| 14.10.09       | 498.31                 | 55.656                            | -0.848                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 2.113                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>7.530</b>                          |                       | <b>3.455</b>       |                         | <b>17.275</b>        |                            | <b>0.296</b>            | <b>28.557</b>                       |         |
| 15.10.09       | 497.69                 | 53.960                            | -1.696                                | 250                   | 0.6170             | 1000                    | 2.4679               |                            | 0.0000                  | 1.389                               |         |
| 16.10.09       | 496.81                 | 52.476                            | -1.484                                | 250                   | 0.6170             | 1300                    | 3.2083               |                            | 0.0000                  | 2.341                               |         |
| 17.10.09       | 495.86                 | 50.356                            | -2.120                                | 250                   | 0.6170             | 1300                    | 3.2083               |                            | 0.0000                  | 1.705                               |         |
| 18.10.09       | 494.96                 | 48.521                            | -1.835                                | 250                   | 0.6170             | 1300                    | 3.2083               |                            | 0.0000                  | 1.990                               |         |
| 19.10.09       | 494.10                 | 46.941                            | -1.579                                | 250                   | 0.6170             | 1300                    | 3.2083               |                            | 0.0000                  | 2.246                               |         |
| 20.10.09       | 493.02                 | 44.770                            | -2.172                                | 250                   | 0.6170             | 1300                    | 3.2083               |                            | 0.0000                  | 1.654                               |         |
| 21.10.09       | 491.82                 | 42.503                            | -2.267                                | 300                   | 0.7404             | 1300                    | 3.2083               |                            | 0.0000                  | 1.681                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-13.153</b>                        |                       | <b>4.442</b>       |                         | <b>21.717</b>        |                            | <b>0.000</b>            | <b>13.006</b>                       |         |
| 22.10.09       | 490.19                 | 39.579                            | -2.924                                | 300                   | 0.7404             | 1600                    | 3.9486               |                            | 0.0000                  | 1.765                               |         |

| Date           | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 23.10.09       | 488.65                 | 37.054                            | -2.525                                | 300                   | 0.7404             | 1600                    | 3.9486               |                            | 0.0000                  | 2.164                               |         |
| 24.10.09       | 487.66                 | 35.517                            | -1.537                                | 300                   | 0.7404             | 1100                    | 2.7147               |                            | 0.0000                  | 1.918                               |         |
| 25.10.09       | 486.72                 | 34.134                            | -1.383                                | 250                   | 0.6170             | 1500                    | 3.7018               |                            | 0.0000                  | 2.936                               |         |
| 26.10.09       | 485.19                 | 31.761                            | -2.373                                | 250                   | 0.6170             | 1500                    | 3.7018               |                            | 0.0000                  | 1.946                               |         |
| 27.10.09       | 483.51                 | 29.577                            | -2.184                                | 300                   | 0.7404             | 1500                    | 3.7018               |                            | 0.0000                  | 2.258                               |         |
| 28.10.09       | 481.53                 | 26.975                            | -2.602                                | 300                   | 0.7404             | 1500                    | 3.7018               |                            | 0.0000                  | 1.840                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-15.527</b>                        |                       | <b>4.936</b>       |                         | <b>25.419</b>        |                            | <b>0.000</b>            | <b>14.828</b>                       |         |
| 29.10.09       | 479.79                 | 24.686                            | -2.289                                | 300                   | 0.7404             | 1500                    | 3.7018               |                            | 0.0000                  | 2.153                               |         |
| 30.10.09       | 478.04                 | 22.908                            | -1.779                                | 300                   | 0.7404             | 1500                    | 3.7018               |                            | 0.0000                  | 2.663                               |         |
| 31.10.09       | 476.79                 | 21.535                            | -1.373                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.589                               |         |
| <b>1.11.09</b> | 476.20                 | 21.007                            | -0.528                                | 150                   | 0.3702             | 700                     | 1.7275               |                            | 0.0000                  | 1.570                               |         |
| 2.11.09        | 475.00                 | 19.816                            | -1.191                                | 150                   | 0.3702             | 700                     | 1.7275               |                            | 0.0000                  | 0.907                               |         |
| 3.11.09        | 473.50                 | 18.396                            | -1.421                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 1.541                               |         |
| 4.11.09        | 472.70                 | 17.638                            | -0.758                                | 200                   | 0.4936             | 1000                    | 2.4679               |                            | 0.0000                  | 2.204                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-9.338</b>                         |                       | <b>3.702</b>       |                         | <b>18.262</b>        |                            | <b>0.000</b>            | <b>12.627</b>                       |         |
| 5.11.09        | 471.20                 | 16.418                            | -1.219                                | 200                   | 0.4936             | 700                     | 1.7275               |                            | 0.0000                  | 1.002                               |         |
| 6.11.09        | 469.70                 | 15.230                            | -1.188                                | 200                   | 0.4936             | 700                     | 1.7275               |                            | 0.0000                  | 1.033                               |         |
| 7.11.09        | 468.30                 | 14.224                            | -1.006                                | 200                   | 0.4936             | 700                     | 1.7275               |                            | 0.0000                  | 1.215                               |         |
| 8.11.09        | 466.70                 | 13.140                            | -1.084                                | 150                   | 0.3702             | 700                     | 1.7275               |                            | 0.0000                  | 1.014                               |         |
| 9.11.09        | 465.00                 | 12.081                            | -1.059                                | 150                   | 0.3702             | 700                     | 1.7275               |                            | 0.0000                  | 1.039                               |         |
| 10.11.09       | 463.70                 | 11.335                            | -0.747                                | 150                   | 0.3702             | 700                     | 1.7275               |                            | 0.0000                  | 1.351                               |         |
| 11.11.09       | 461.90                 | 10.365                            | -0.969                                | 150                   | 0.3702             | 700                     | 1.7275               |                            | 0.0000                  | 1.128                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-7.272</b>                         |                       | <b>2.961</b>       |                         | <b>12.093</b>        |                            | <b>0.000</b>            | <b>7.782</b>                        |         |
| 12.11.09       | 460.00                 | 9.449                             | -0.916                                | 150                   | 0.3702             | 700                     | 1.7275               |                            | 0.0000                  | 1.181                               |         |
| 13.11.09       | 458.70                 | 8.821                             | -0.628                                | 150                   | 0.3702             | 700                     | 1.7275               |                            | 0.0000                  | 1.470                               |         |
| 14.11.09       | 456.90                 | 8.117                             | -0.704                                | 150                   | 0.3702             | 700                     | 1.7275               |                            | 0.0000                  | 1.393                               |         |
| 15.11.09       | 455.50                 | 7.586                             | -0.531                                | 150                   | 0.3702             | 700                     | 1.7275               |                            | 0.0000                  | 1.567                               |         |
| 16.11.09       | 455.50                 | 7.586                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 17.11.09       | 455.50                 | 7.586                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18.11.09       | 455.50                 | 7.586                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date           | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|----------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|                |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| <b>TOTAL</b>   |                        |                                   | <b>-2.780</b>                         |                       | <b>1.481</b>       |                         | <b>6.910</b>         |                            | <b>0.000</b>            | <b>5.611</b>                        |         |
| 19.11.09       | 455.50                 | 7.586                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20.11.09       | 455.50                 | 7.586                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21.11.09       | 455.50                 | 7.586                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22.11.09       | 455.60                 | 7.619                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 23.11.09       | 455.60                 | 7.619                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 24.11.09       | 455.60                 | 7.619                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25.11.09       | 455.60                 | 7.619                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>0.033</b>                          |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.033</b>                        |         |
| 26.11.09       | 455.60                 | 7.619                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27.11.09       | 455.60                 | 7.619                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28.11.09       | 455.60                 | 7.619                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29.11.09       | 455.60                 | 7.619                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30.11.10       | 455.60                 | 7.619                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>1.12.09</b> | 455.50                 | 7.586                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 2.12.09        | 455.50                 | 7.586                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-0.033</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 3.12.09        | 455.50                 | 7.586                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 4.12.09        | 455.50                 | 7.586                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 5.12.09        | 455.40                 | 7.552                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 6.12.09        | 455.40                 | 7.552                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 7.12.09        | 455.40                 | 7.552                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 8.12.09        | 455.40                 | 7.552                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 9.12.09        | 455.40                 | 7.552                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>   |                        |                                   | <b>-0.033</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 10.12.09       | 455.30                 | 7.486                             | -0.067                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 11.12.09       | 455.30                 | 7.486                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 12.12.09       | 455.30                 | 7.486                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 13.12.09       | 455.30                 | 7.486                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 14.12.09       | 455.20                 | 7.486                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |

| Date          | Reservoir Level in Ft. |                                   |                                       | Discharge             |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|---------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|               |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 15.12.09      | 455.20                 | 7.486                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 16.12.09      | 455.20                 | 7.486                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-0.067</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 17.12.09      | 455.20                 | 7.486                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 18.12.09      | 455.20                 | 7.486                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19.12.09      | 455.20                 | 7.486                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 20.12.09      | 455.10                 | 7.453                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 21.12.09      | 455.10                 | 7.453                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 22.12.09      | 455.10                 | 7.453                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 23.12.09      | 455.10                 | 7.453                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-0.033</b>                         |                       | <b>0.000</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.000</b>                        |         |
| 24.12.09      | 455.10                 | 7.453                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 25.12.09      | 455.10                 | 7.453                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 26.12.09      | 455.00                 | 7.419                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 27.12.09      | 455.00                 | 7.419                             | 0.000                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 28.12.09      | 455.10                 | 7.453                             | 0.033                                 |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.033                               |         |
| 29.12.09      | 455.00                 | 7.419                             | -0.033                                |                       | 0.0000             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 30.12.09      | 454.90                 | 7.386                             | -0.033                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.337                               |         |
| 31.12.09      | 454.60                 | 7.286                             | -0.100                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.270                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-0.166</b>                         |                       | <b>0.740</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.641</b>                        |         |
| <b>1.1.10</b> | 454.10                 | 7.087                             | -0.200                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.171                               |         |
| 2.1.10        | 453.50                 | 6.920                             | -0.166                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.204                               |         |
| 3.1.10        | 452.90                 | 6.721                             | -0.200                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.171                               |         |
| 4.1.10        | 452.30                 | 6.550                             | -0.171                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.199                               |         |
| 5.1.10        | 451.80                 | 6.412                             | -0.138                                | 150                   | 0.3702             |                         | 0.0000               |                            | 0.0000                  | 0.233                               |         |
| 6.1.10        | 451.10                 | 6.220                             | -0.193                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.301                               |         |
| 7.1.10        | 450.30                 | 6.000                             | -0.220                                | 200                   | 0.4936             |                         | 0.0000               |                            | 0.0000                  | 0.274                               |         |
| <b>TOTAL</b>  |                        |                                   | <b>-1.286</b>                         |                       | <b>2.838</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>1.552</b>                        |         |
| 8.1.10        | 449.40                 | 5.755                             | -0.245                                | 100                   | 0.2468             | 100                     | 0.2468               |                            | 0.0000                  | 0.249                               |         |
| 9.1.10        | 448.50                 | 5.532                             | -0.223                                | 100                   | 0.2468             | 100                     | 0.2468               |                            | 0.0000                  | 0.271                               |         |

| Date         | Reservoir Level in Ft. | Discharge                         |                                       |                       |                    |                         |                      |                            |                         | Total inflow in MCM Col. (5+7+9+11) | Remarks |
|--------------|------------------------|-----------------------------------|---------------------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------------|-------------------------|-------------------------------------|---------|
|              |                        | By New Area-capacity graph in MCM | Increase in Reservoir capacity in MCM | Through HLC in cusecs | Through HLC in MCM | Through River in cusecs | Through River in MCM | Through Spillway in cusecs | Through Spillway in MCM |                                     |         |
| 10.1.10      | 447.30                 | 5.235                             | -0.297                                | 150                   | 0.3702             | 100                     | 0.2468               |                            | 0.0000                  | 0.320                               |         |
| 11.1.10      | 446.20                 | 4.963                             | -0.272                                | 150                   | 0.3702             | 100                     | 0.2468               |                            | 0.0000                  | 0.345                               |         |
| 12.1.10      | 445.10                 | 4.695                             | -0.268                                | 150                   | 0.3702             | 450                     | 1.1106               |                            | 0.0000                  | 1.213                               |         |
| 13.1.10      | 444.00                 | 4.428                             | -0.268                                | 150                   | 0.3702             | 450                     | 1.1106               |                            | 0.0000                  | 1.213                               |         |
| 14.1.10      | 442.70                 | 4.110                             | -0.317                                | 150                   | 0.3702             | 450                     | 1.1106               |                            | 0.0000                  | 1.163                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-1.889</b>                         |                       | <b>2.345</b>       |                         | <b>4.319</b>         |                            | <b>0.000</b>            | <b>4.774</b>                        |         |
| 15.1.10      | 441.10                 | 3.715                             | -0.395                                | 150                   | 0.3702             | 450                     | 1.1106               |                            | 0.0000                  | 1.085                               |         |
| 16.1.10      | 439.30                 | 3.275                             | -0.440                                | 150                   | 0.3702             | 450                     | 1.1106               |                            | 0.0000                  | 1.041                               |         |
| 17.1.10      | 433.40                 | 1.896                             | -1.379                                | 150                   | 0.3702             | 750                     | 1.8509               |                            | 0.0000                  | 0.842                               |         |
| 18.1.10      | 432.00                 | 1.576                             | -0.320                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 19.1.10      | 431.50                 | 1.462                             | -0.114                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.133                               |         |
| 20.1.10      | 431.00                 | 1.348                             | -0.114                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.133                               |         |
| 21.1.10      | 430.30                 | 1.189                             | -0.160                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.087                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-2.922</b>                         |                       | <b>2.098</b>       |                         | <b>4.072</b>         |                            | <b>0.000</b>            | <b>3.321</b>                        |         |
| 22.1.10      | 429.60                 | 1.030                             | -0.159                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.088                               |         |
| 23.1.10      | 429.00                 | 0.895                             | -0.134                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.112                               |         |
| 24.1.10      | 428.30                 | 0.739                             | -0.157                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.090                               |         |
| 25.1.10      | 427.50                 | 0.560                             | -0.179                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.068                               |         |
| 26.1.10      | 426.80                 | 0.403                             | -0.157                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.090                               |         |
| 27.1.10      | 426.20                 | 0.232                             | -0.170                                | 100                   | 0.2468             |                         | 0.0000               |                            | 0.0000                  | 0.076                               |         |
| 28.1.10      | 425.60                 |                                   | -0.232                                | 70                    | 0.1728             |                         | 0.0000               |                            | 0.0000                  | 0.000                               |         |
| 29.1.10      | 425.00                 |                                   | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.123                               |         |
| 30.1.10      | 425.00                 |                                   | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.123                               |         |
| 31.1.10      | 425.00                 |                                   | 0.000                                 | 50                    | 0.1234             |                         | 0.0000               |                            | 0.0000                  | 0.123                               |         |
| <b>TOTAL</b> |                        |                                   | <b>-1.189</b>                         |                       | <b>2.024</b>       |                         | <b>0.000</b>         |                            | <b>0.000</b>            | <b>0.895</b>                        |         |

**WEEKLY INFLOW DATA OF CHANDAN DAM FROM 1992 TO 2010**

| Sl. No.      | Week / Year | 1st Week      | 2nd Week      | 3rd Week      | 4th Week      | 5th Week      | 6th Week      | 7th Week      | 8th Week      | 9th Week      | 10th Week     | 11th Week     | 12th Week     | 13th Week     | 14th Week    | 15th Week    | 16th Week    | 17th Week    | 18th Week    | 19th Week    | 20th Week    | 21st Week    | 22nd Week     | 23rd Week     | 24th Week     | 25th Week      | 26th Week      |  |
|--------------|-------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|----------------|----------------|--|
| 1            | 1993        | 0.000         | 0.427         | 1.836         | 3.018         | 3.260         | 0.823         | 0.090         | 0.000         | 0.112         | 1.728         | 0.258         | 0.000         | 4.817         | 0.000        | 2.835        | 0.000        | 5.329        | 0.025        | 0.000        | 0.000        | 0.198        | 0.000         | 0.000         | 5.359         | 3.703          | 13.410         |  |
| 2            | 1994        | 0.494         | 4.788         | 6.006         | 3.842         | 1.284         | 0.000         | 0.000         | 0.000         | 0.681         | 3.920         | 8.530         | 1.279         | 0.202         | 0.370        | 0.374        | 0.326        | 0.384        | 0.384        | 0.335        | 0.384        | 0.384        | 0.370         | 3.506         | 3.824         | 4.387          | 3.705          |  |
| 3            | 1995        | 1.188         | 3.537         | 4.416         | 2.497         | 1.177         | 0.158         | 0.941         | 5.836         | 3.306         | 0.000         | 0.000         | 0.000         | 0.000         | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000         | 0.895         | 6.690         | 1.863          | 3.556          |  |
| 4            | 1996        | 1.484         | 0.658         | 3.761         | 1.448         | 2.073         | 1.469         | 0.297         | 0.000         | 6.280         | 0.471         | 0.712         | 0.927         | 0.000         | 0.211        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.739         | 0.546         | 0.273         | 2.048          | 11.388         |  |
| 5            | 1997        | 0.691         | 0.213         | 0.000         | 0.000         | 0.236         | 4.245         | 0.609         | 0.000         | 0.000         | 0.000         | 0.000         | 0.000         | 0.000         | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000         | 0.000         | 0.671         | 2.179          | 1.820          |  |
| 6            | 1998        | 0.137         | 0.617         | 2.045         | 0.604         | 2.805         | 10.181        | 9.237         | 2.437         | 1.789         | 0.859         | 1.111         | 6.639         | 7.425         | 0.138        | 0.275        | 0.554        | 0.266        | 0.200        | 0.133        | 0.000        | 0.000        | 0.000         | 0.000         | 0.233         | 1.900          | 0.800          |  |
| 7            | 1999        | 1.111         | 4.079         | 5.482         | 2.771         | 0.682         | 2.072         | 2.724         | 4.462         | 6.465         | 5.559         | 3.482         | 3.786         | 3.915         | 3.741        | 3.578        | 2.797        | 0.000        | 0.000        | 1.577        | 1.957        | 1.966        | 0.209         | 0.275         | 8.466         | 2.105          | 12.159         |  |
| 8            | 2000        | 3.009         | 3.347         | 3.891         | 5.321         | 2.250         | 2.559         | 0.602         | 1.411         | 0.781         | 2.318         | 5.149         | 0.230         | 0.530         | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 10.990        | 0.861         | 0.230         | 1.736          | 0.407          |  |
| 9            | 2001        | 4.945         | 4.155         | 6.073         | 0.000         | 0.000         | 0.000         | 0.000         | 0.000         | 0.000         | 0.000         | 0.000         | 0.000         | 0.000         | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000         | 0.000         | 0.000         | 0.000          | 51.416         |  |
| 10           | 2002        | 2.825         | 7.560         | 10.366        | 6.586         | 1.870         | 0.346         | 2.688         | 4.425         | 10.645        | 5.603         | 4.754         | 2.225         | 0.000         | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 1.234        | 1.829         | 0.430         | 0.716         | 2.011          | 2.477          |  |
| 11           | 2003        | 4.431         | 1.125         | 2.182         | 8.796         | 6.775         | 0.000         | 2.898         | 4.701         | 0.421         | 3.337         | 1.986         | 4.903         | 4.237         | 2.247        | 0.281        | 0.045        | 0.000        | 0.449        | 0.830        | 0.000        | 0.000        | 0.671         | 1.595         | 1.868         | 2.785          | 12.422         |  |
| 12           | 2004        | 2.958         | 3.375         | 3.177         | 2.815         | 0.466         | 0.244         | 0.798         | 1.323         | 0.902         | 3.424         | 3.285         | 2.861         | 0.000         | 0.158        | 0.000        | 0.000        | 0.512        | 1.244        | 1.676        | 0.000        | 0.796        | 2.410         | 2.905         | 2.458         | 141.801        | 9.457          |  |
| 13           | 2005        | 7.256         | 5.994         | 3.433         | 4.585         | 3.798         | 5.504         | 3.389         | 3.013         | 6.407         | 3.935         | 7.299         | 4.747         | 0.895         | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000         | 0.000         | 0.000         | 1.448          | 3.239          |  |
| 14           | 2006        | 1.954         | 6.910         | 5.538         | 1.033         | 0.342         | 0.412         | 0.301         | 0.832         | 0.087         | 0.091         | 0.091         | 0.023         | 0.023         | 0.137        | 0.251        | 1.422        | 1.685        | 0.344        | 0.759        | 0.975        | 1.901        | 6.726         | 34.173        | 3.180         | 0.636          | 8.156          |  |
| 15           | 2007        | 3.453         | 6.386         | 3.906         | 1.819         | 0.925         | 9.192         | 4.546         | 0.516         | 0.682         | 5.302         | 3.697         | 1.151         | 0.000         | 0.000        | 0.572        | 0.456        | 0.621        | 0.048        | 0.096        | 0.096        | 0.193        | 0.048         | 0.000         | 0.145         | 0.000          | 16.894         |  |
| 16           | 2008        | 1.952         | 2.602         | 3.045         | 5.277         | 4.278         | 1.324         | 1.121         | 1.041         | 1.759         | 1.971         | 2.108         | 2.278         | 2.439         | 0.562        | 0.678        | 0.750        | 0.578        | 0.231        | 0.000        | 0.000        | 0.000        | 0.106         | 4.844         | 7.844         | 18.207         | 4.608          |  |
| 17           | 2009        | 0.173         | 0.143         | 0.138         | 0.138         | 0.138         | 0.138         | 0.138         | 0.138         | 0.138         | 0.138         | 0.138         | 0.109         | 0.104         | 0.069        | 0.054        | 0.052        | 0.052        | 0.007        | 0.000        | 0.000        | 0.314        | 0.135         | 0.938         | 0.000         | 0.627          | 0.030          |  |
| <b>TOTAL</b> |             | <b>38.059</b> | <b>55.916</b> | <b>65.297</b> | <b>50.549</b> | <b>32.360</b> | <b>38.667</b> | <b>30.380</b> | <b>30.135</b> | <b>40.455</b> | <b>38.655</b> | <b>42.601</b> | <b>31.157</b> | <b>24.587</b> | <b>7.633</b> | <b>8.898</b> | <b>6.402</b> | <b>9.426</b> | <b>2.932</b> | <b>5.408</b> | <b>3.412</b> | <b>6.985</b> | <b>24.234</b> | <b>50.969</b> | <b>41.957</b> | <b>187.437</b> | <b>155.943</b> |  |
|              |             |               |               |               |               |               |               |               |               |               |               |               |               |               |              |              |              |              |              |              |              |              |               |               |               |                |                |  |

**WEEKLY INFLOW DA**

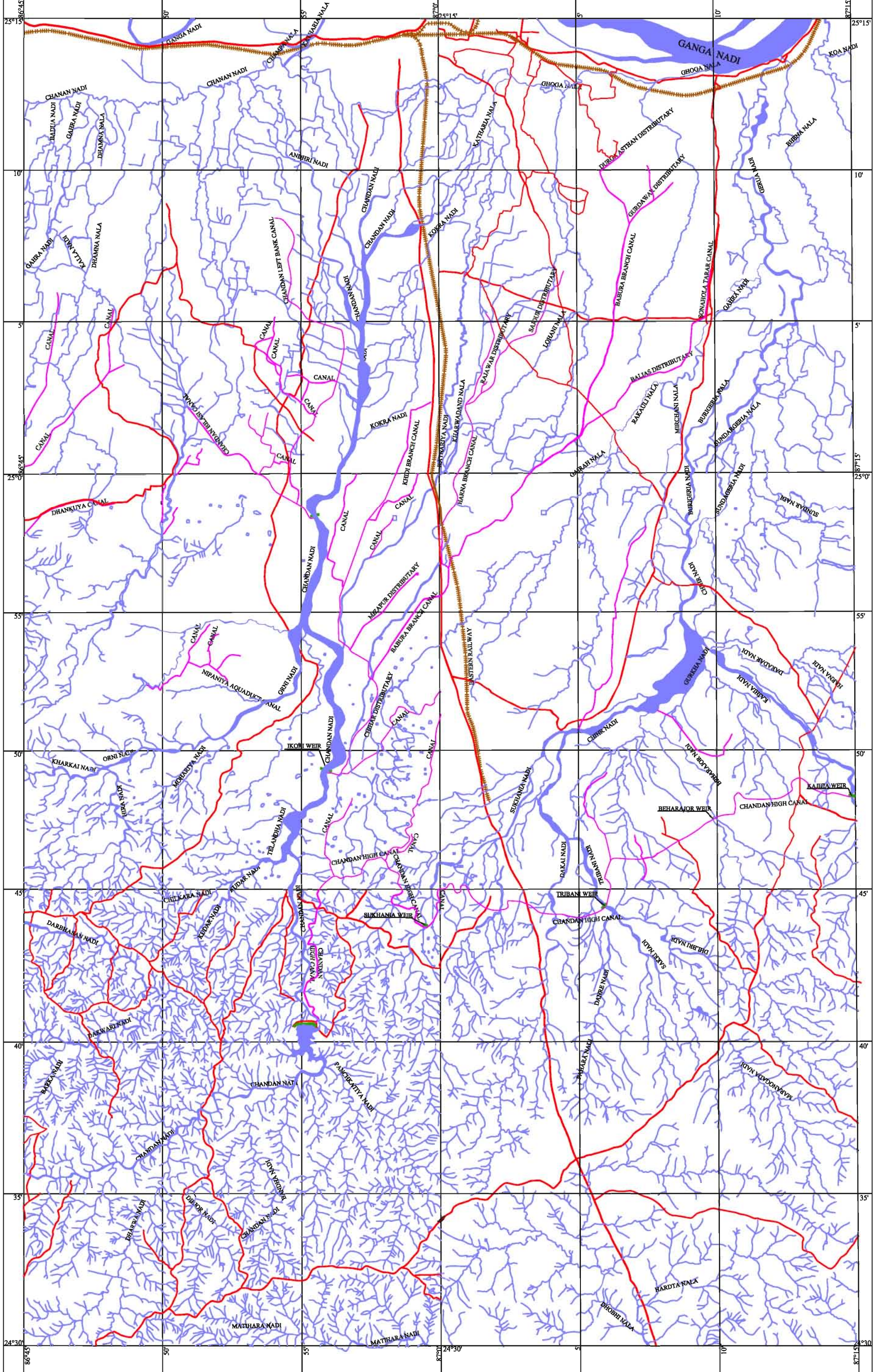
| Sl. No.      | Week / Year | 27th Week      | 28th Week      | 29th Week      | 30th Week      | 31st Week      | 32nd Week      | 33rd Week      | 34th Week      | 35th Week      | 36th Week      | 37th Week      | 38th Week      | 39th Week      | 40th Week      | 41st Week      | 42nd Week      | 43rd Week      | October Flow    | Total Monsoon Flow | 44th Week      | 45th Week     | 46th Week     | 47th Week     |
|--------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|--------------------|----------------|---------------|---------------|---------------|
| 1            | 1993        | 1.161          | 4.536          | 5.404          | 9.760          | 13.519         | 50.169         | 19.255         | 17.739         | 14.901         | 19.637         | 29.393         | 11.819         | 42.502         | 19.770         | 8.667          | 11.029         | 2.221          | <b>41.687</b>   | <b>303.956</b>     | 1.209          | 2.318         | 0.848         | 0.424         |
| 2            | 1994        | 4.408          | 0.881          | 3.195          | 12.546         | 21.118         | 9.485          | 23.127         | 15.498         | 10.506         | 7.259          | 15.685         | 7.164          | 5.463          | 17.288         | 35.051         | 3.724          | 6.865          | <b>62.928</b>   | <b>214.684</b>     | 0.158          | 0.458         | 0.852         | 0.568         |
| 3            | 1995        | 18.757         | 19.866         | 4.576          | 17.264         | 12.988         | 22.700         | 17.125         | 12.476         | 6.690          | 23.301         | 10.312         | 22.880         | 49.953         | 10.893         | 6.876          | 4.902          | 8.666          | <b>31.337</b>   | <b>283.228</b>     | 8.005          | 17.645        | 7.252         | 1.111         |
| 4            | 1996        | 2.834          | 20.704         | 10.864         | 11.389         | 6.671          | 46.574         | 21.888         | 62.317         | 18.107         | 32.907         | 11.957         | 12.416         | 22.225         | 12.111         | 9.609          | 10.414         | 17.226         | <b>49.361</b>   | <b>344.469</b>     | 2.651          | 0.336         | 0.381         | 0.381         |
| 5            | 1997        | 18.236         | 50.983         | 52.351         | 32.105         | 16.306         | 16.783         | 34.802         | 12.885         | 31.160         | 13.186         | 27.036         | 29.287         | 14.639         | 9.742          | 12.780         | 11.061         | 11.808         | <b>45.391</b>   | <b>399.820</b>     | 13.959         | 2.462         | 2.101         | 0.845         |
| 6            | 1998        | 7.662          | 59.999         | 45.106         | 3.156          | 6.074          | 13.302         | 23.684         | 38.176         | 39.096         | 111.393        | 47.250         | 12.813         | 17.819         | 47.894         | 15.888         | 26.403         | 16.388         | <b>106.572</b>  | <b>535.036</b>     | 8.386          | 0.000         | 0.000         | 0.000         |
| 7            | 1999        | 11.372         | 43.411         | 36.582         | 34.578         | 30.298         | 9.928          | 52.124         | 26.229         | 59.232         | 13.931         | 29.887         | 17.450         | 228.658        | 23.198         | 6.925          | 101.574        | 11.330         | <b>143.027</b>  | <b>759.712</b>     | 5.716          | 6.444         | 2.409         | 1.111         |
| 8            | 2000        | 4.550          | 11.274         | 25.683         | 30.194         | 4.385          | 8.227          | 14.758         | 3.692          | 15.822         | 19.286         | 19.565         | 311.372        | 61.742         | 8.247          | 3.234          | 9.181          | 10.481         | <b>31.144</b>   | <b>564.930</b>     | 12.277         | 17.850        | 14.038        | 0.605         |
| 9            | 2001        | 9.699          | 4.169          | 6.277          | 9.585          | 14.766         | 7.097          | 11.987         | 17.752         | 22.467         | 41.047         | 24.559         | 34.107         | 5.946          | 166.645        | 13.239         | 16.739         | 12.353         | <b>208.975</b>  | <b>469.850</b>     | 3.837          | 2.317         | 0.516         | 0.516         |
| 10           | 2002        | 21.153         | 0.000          | 4.666          | 14.246         | 5.284          | 13.146         | 40.308         | 23.263         | 7.350          | 7.384          | 17.604         | 15.835         | 46.256         | 17.841         | 14.094         | 16.594         | 10.365         | <b>58.894</b>   | <b>281.022</b>     | 2.284          | 0.524         | 0.787         | 0.688         |
| 11           | 2003        | 2.087          | 22.551         | 7.996          | 9.058          | 40.757         | 16.301         | 18.246         | 26.123         | 18.642         | 15.033         | 15.512         | 20.561         | 32.607         | 30.073         | 56.577         | 11.353         | 23.367         | <b>121.370</b>  | <b>385.513</b>     | 12.241         | 2.989         | 2.989         | 1.647         |
| 12           | 2004        | 1.916          | 8.110          | 12.372         | 5.057          | 10.609         | 14.030         | 14.136         | 15.087         | 38.395         | 12.740         | 10.477         | 61.194         | 17.501         | 24.759         | 64.150         | 15.390         | 3.881          | <b>108.180</b>  | <b>486.424</b>     | 2.926          | 0.000         | 0.000         | 1.777         |
| 13           | 2005        | 15.516         | 12.657         | 52.551         | 7.594          | 5.823          | 11.083         | 22.043         | 38.829         | 6.185          | 10.385         | 16.540         | 13.162         | 12.392         | 12.711         | 15.188         | 6.203          | 11.216         | <b>45.318</b>   | <b>274.766</b>     | 2.254          | 0.033         | 0.033         | 0.033         |
| 14           | 2006        | 1.153          | 95.160         | 6.752          | 10.733         | 13.450         | 11.449         | 6.814          | 15.318         | 36.384         | 5.112          | 2.060          | 131.749        | 144.708        | 7.974          | 8.867          | 7.018          | 12.813         | <b>36.672</b>   | <b>563.658</b>     | 11.138         | 13.637        | 1.730         | 0.528         |
| 15           | 2007        | 5.486          | 10.218         | 57.374         | 70.964         | 44.666         | 7.401          | 136.351        | 9.761          | 16.328         | 20.545         | 8.368          | 14.724         | 100.305        | 19.899         | 11.226         | 18.164         | 11.874         | <b>61.163</b>   | <b>580.694</b>     | 9.477          | 4.847         | 0.379         | 0.120         |
| 16           | 2008        | 17.906         | 12.012         | 41.426         | 29.489         | 5.163          | 13.616         | 30.017         | 31.742         | 8.066          | 15.320         | 12.344         | 15.749         | 23.699         | 17.457         | 12.869         | 14.045         | 4.756          | <b>49.127</b>   | <b>341.179</b>     | 2.394          | 2.136         | 0.569         | 0.224         |
| 17           | 2009        | 1.568          | 1.212          | 2.897          | 1.038          | 5.279          | 12.970         | 7.771          | 7.545          | 6.032          | 21.609         | 12.485         | 14.610         | 11.007         | 23.210         | 28.557         | 13.006         | 14.828         | <b>79.601</b>   | <b>187.218</b>     | 12.627         | 7.782         | 5.611         | 0.033         |
| <b>TOTAL</b> |             | <b>145.464</b> | <b>377.741</b> | <b>376.071</b> | <b>308.755</b> | <b>257.157</b> | <b>284.262</b> | <b>494.436</b> | <b>374.431</b> | <b>355.364</b> | <b>390.077</b> | <b>311.033</b> | <b>746.892</b> | <b>837.422</b> | <b>469.712</b> | <b>323.796</b> | <b>296.802</b> | <b>190.437</b> | <b>1280.747</b> | <b>6976.160</b>    | <b>111.538</b> | <b>81.776</b> | <b>40.495</b> | <b>10.612</b> |
|              |             |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                 |                    |                |               |               |               |

## Annexure - II

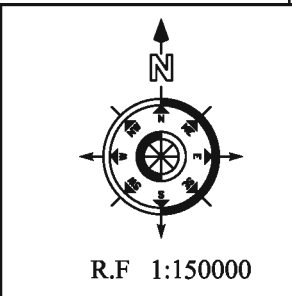
**WEEKLY INFLOW DA**

| Sl. No.      | Week / Year | 48th Week    | 49th Week     | 50th Week     | 51st Week     | 52nd Week     | Yearly Total  |               | % Dependability |
|--------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|
| 1            | 1993        | 0.360        | 0.469         | 0.938         | 0.740         | 1.516         | <b>337.53</b> | 844.81        | 5.56            |
| 2            | 1994        | 0.284        | 0.000         | 0.000         | 0.000         | 0.000         | <b>251.34</b> | 699.87        | 11.11           |
| 3            | 1995        | 1.111        | 1.111         | 0.555         | 0.476         | 4.857         | <b>348.41</b> | 658.35        | 16.67           |
| 4            | 1996        | 0.776        | 0.603         | 1.338         | 0.493         | 1.136         | <b>373.09</b> | 633.80        | 22.22           |
| 5            | 1997        | 0.634        | 1.807         | 2.169         | 0.546         | 0.273         | <b>430.61</b> | 596.64        | 27.78           |
| 6            | 1998        | 0.159        | 1.111         | 1.111         | 1.111         | 2.274         | <b>596.64</b> | 530.25        | 33.33           |
| 7            | 1999        | 1.111        | 1.111         | 1.358         | 2.186         | 1.234         | <b>844.81</b> | 499.73        | 38.89           |
| 8            | 2000        | 0.468        | 0.398         | 0.233         | 3.138         | 2.021         | <b>658.35</b> | 462.80        | 44.44           |
| 9            | 2001        | 1.107        | 1.432         | 1.634         | 0.744         | 2.607         | <b>499.73</b> | 430.61        | 50.00           |
| 10           | 2002        | 0.516        | 0.000         | 0.000         | 3.383         | 3.683         | <b>355.84</b> | 381.61        | 55.56           |
| 11           | 2003        | 1.111        | 1.111         | 1.622         | 0.667         | 2.600         | <b>462.80</b> | 373.09        | 61.11           |
| 12           | 2004        | 0.000        | 0.000         | 0.000         | 0.000         | 6.698         | <b>530.25</b> | 355.84        | 66.67           |
| 13           | 2005        | 0.000        | 0.067         | 0.033         | 0.299         | 0.299         | <b>338.07</b> | 348.41        | 72.22           |
| 14           | 2006        | 1.320        | 1.277         | 1.155         | 1.290         | 6.235         | <b>633.80</b> | 338.07        | 77.78           |
| 15           | 2007        | 0.120        | 58.543        | 0.120         | 0.120         | 1.739         | <b>699.87</b> | 337.53        | 83.33           |
| 16           | 2008        | 0.232        | 0.194         | 0.192         | 0.200         | 0.194         | <b>381.61</b> | 251.34        | 88.89           |
| 17           | 2009        | 0.000        | 0.000         | 0.000         | 0.000         | 0.641         | <b>216.37</b> | 216.37        | 94.44           |
| <b>TOTAL</b> |             | <b>9.307</b> | <b>69.232</b> | <b>12.458</b> | <b>15.394</b> | <b>38.008</b> |               |               |                 |
|              |             |              |               |               |               |               |               | <b>343.24</b> | <b>75%</b>      |
|              |             |              |               |               |               |               |               | <b>244.35</b> | <b>90%</b>      |





| S.No | LEGEND       |
|------|--------------|
| 1.   | NADI         |
| 2.   | ROADS        |
| 3.   | NALAS        |
| 4.   | CANAL        |
| 5.   | RAILWAY LINE |
| 6.   | PONDS        |

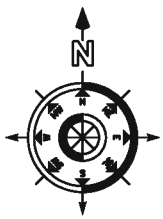
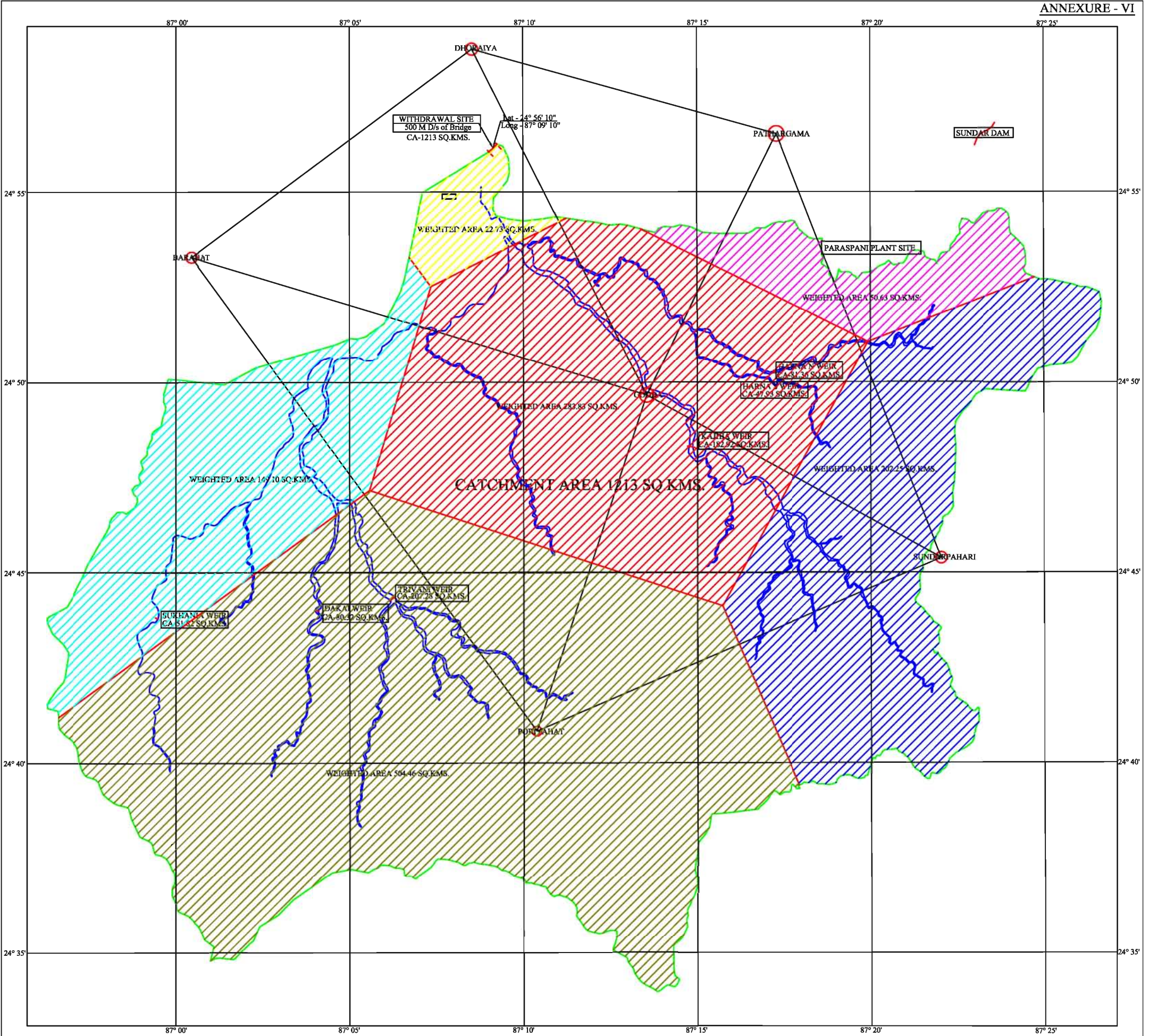


ORIGINAL SCALE 50000  
PRINT SCALE 1:3 (A1)

|                   |                  |
|-------------------|------------------|
| 72 $\frac{K}{16}$ | 72 $\frac{O}{4}$ |
| 72 $\frac{L}{13}$ | 72 $\frac{P}{1}$ |
| 72 $\frac{L}{14}$ | 72 $\frac{P}{2}$ |

AP(J)L, PARASPANI TPP  
INDEX MAP  
SHOWING SCHEMES IN CHANDAN - CHIR  
BILASI BASIN  
PREPARED BY  
NANO SYSTEM CONSULTANTS PVT.LTD. RANCHI





NOT TO SCALE

72  $\frac{L}{13}$

72  $\frac{P}{1}$

72  $\frac{P}{5}$

72  $\frac{L}{14}$

72  $\frac{P}{2}$

72  $\frac{P}{6}$

AP(J)L, PARASPANI TPP

INDEX MAP

SHOWING CATCHMENT AREA AT WITHDRAWAL POINT IN CHIR RIVER & THIESSEN POLYGON

PREPARED BY

NANO SYSTEM CONSULTANTS PVT.LTD. RANCHI





**CHANDAN RESERVOIR SCHEME**  
**COMPUTATION OF WEEKLY WEIGHTED RAINFALL IN MM**

| Station name | Year | Weighted areas of RG Stations in Ha :- |          |          |          |          |          |          |          |          |           |           |           | 40366 | Katoriya | 16449 | Total Area = |           | 56815 | 19th Week | 20th Week | 21st Week | 22nd Week | 23rd Week | 24th Week | 25th Week | 26th Week |           |
|--------------|------|--|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-------|----------|-------|--------------|-----------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|              |      | 1st Week                               | 2nd Week | 3rd Week | 4th Week | 5th Week | 6th Week | 7th Week | 8th Week | 9th Week | 10th Week | 11th Week | 12th Week |       |          |       | 13th Week    | 14th Week |       |           |           |           |           |           |           |           |           | 15th Week |
| Deoghar      | 1992 | 5.40                                   | 0.00     | 0.00     | 0.00     | 0.00     | 3.60     | 0.00     | 0.00     | 0.00     | 0.00      | 0.00      | 0.00      | 0.00  | 0.00     | 0.00  | 6.40         | 9.50      | 0.00  | 21.80     | 18.00     | 0.00      | 11.30     | 31.70     | 10.50     | 42.90     |           |           |
| Katoriya     | 1992 | 0.00                                   | 0.00     | 0.00     | 21.40    | 0.00     | 7.20     | 0.00     | 0.00     | 0.00     | 0.00      | 0.00      | 0.00      | 0.00  | 0.00     | 0.00  | 0.00         | 38.40     | 0.00  | 3.60      | 40.20     | 0.00      | 0.00      | 24.60     | 31.60     | 36.20     |           |           |
| Weighted RF  | 1992 | 3.84                                   | 0.00     | 0.00     | 6.20     | 0.00     | 4.64     | 0.00     | 0.00     | 0.00     | 0.00      | 0.00      | 0.00      | 0.00  | 0.00     | 0.00  | 4.55         | 17.87     | 0.00  | 16.53     | 24.43     | 0.00      | 8.03      | 29.64     | 16.61     | 40.96     |           |           |
| Deoghar      | 1993 | 0.00                                   | 0.00     | 0.00     | 0.00     | 18.00    | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 0.00      | 18.00     | 15.00 | 0.00     | 0.00  | 0.00         | 2.50      | 1.50  | 0.00      | 2.00      | 9.50      | 6.00      | 7.00      | 34.00     | 66.90     |           |           |
| Katoriya     | 1993 | 0.00                                   | 7.80     | 0.00     | 0.00     | 11.80    | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 0.00      | 14.00     | 32.00 | 0.00     | 1.80  | 0.00         | 33.00     | 0.60  | 0.00      | 1.80      | 42.40     | 8.40      | 1.80      | 28.00     | 67.70     | 95.40     |           |
| Weighted RF  | 1993 | 0.00                                   | 2.26     | 0.00     | 0.00     | 16.20    | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 0.00      | 16.84     | 19.92 | 0.00     | 0.52  | 0.00         | 9.55      | 1.95  | 1.07      | 0.52      | 13.70     | 9.18      | 4.78      | 13.08     | 43.76     | 75.15     |           |
| Deoghar      | 1994 | 0.00                                   | 0.00     | 20.00    | 0.00     | 16.00    | 6.00     | 0.00     | 20.00    | 0.00     | 0.00      | 5.60      | 2.00      | 0.00  | 0.00     | 0.00  | 11.40        | 16.00     | 0.00  | 0.00      | 0.00      | 26.00     | 0.00      | 11.50     | 43.00     | 17.20     | 17.30     |           |
| Katoriya     | 1994 | 0.00                                   | 0.00     | 10.20    | 0.00     | 22.80    | 13.20    | 0.00     | 28.00    | 0.00     | 0.00      | 0.00      | 0.00      | 0.00  | 0.00     | 0.00  | 8.00         | 4.00      | 0.00  | 6.00      | 27.40     | 4.30      | 0.00      | 14.00     | 61.10     | 122.10    | 16.60     |           |
| Weighted RF  | 1994 | 0.00                                   | 0.00     | 17.16    | 0.00     | 17.97    | 8.08     | 0.00     | 22.32    | 0.00     | 0.00      | 3.98      | 1.42      | 0.00  | 0.00     | 0.00  | 10.42        | 12.53     | 0.00  | 1.74      | 7.93      | 19.72     | 0.00      | 12.22     | 48.24     | 47.57     | 17.10     |           |
| Deoghar      | 1995 | 0.00                                   | 15.00    | 0.00     | 0.00     | 0.00     | 0.00     | 3.60     | 0.00     | 0.00     | 0.00      | 0.00      | 0.00      | 0.00  | 0.00     | 0.00  | 0.00         | 0.00      | 0.00  | 0.00      | 16.00     | 0.00      | 12.00     | 33.60     | 44.00     | 72.80     | 48.80     |           |
| Katoriya     | 1995 | 0.00                                   | 4.30     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 0.00      | 0.00      | 0.00  | 0.00     | 0.00  | 0.00         | 0.00      | 0.00  | 0.00      | 7.00      | 0.00      | 0.00      | 4.30      | 8.00      | 98.60     | 59.30     |           |
| Weighted RF  | 1995 | 0.00                                   | 11.90    | 0.00     | 0.00     | 0.00     | 0.00     | 2.56     | 0.00     | 0.00     | 0.00      | 0.00      | 0.00      | 0.00  | 0.00     | 0.00  | 0.00         | 0.00      | 0.00  | 0.00      | 13.39     | 0.00      | 8.53      | 25.12     | 33.58     | 80.27     | 51.84     |           |
| Deoghar      | 1996 | 0.00                                   | 0.00     | 16.80    | 0.00     | 0.00     | 0.00     | 0.00     | 5.00     | 30.00    | 0.00      | 0.00      | 22.00     | 0.00  | 0.00     | 0.00  | 0.00         | 0.00      | 0.00  | 0.00      | 0.00      | 0.00      | 11.00     | 33.20     | 0.00      | 115.30    | 91.00     |           |
| Katoriya     | 1996 | 0.00                                   | 0.00     | 7.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 47.00    | 0.00      | 0.00      | 0.00      | 0.00  | 0.00     | 0.00  | 44.50        | 14.00     | 0.00  | 0.00      | 0.00      | 0.00      | 13.50     | 35.10     | 0.00      | 132.10    | 82.60     |           |
| Weighted RF  | 1996 | 0.00                                   | 0.00     | 13.96    | 0.00     | 0.00     | 0.00     | 0.00     | 3.55     | 34.92    | 0.00      | 0.00      | 15.63     | 0.00  | 0.00     | 0.00  | 12.88        | 4.05      | 0.00  | 0.00      | 0.00      | 0.00      | 11.72     | 33.75     | 0.00      | 120.16    | 88.57     |           |
| Deoghar      | 1997 | 0.00                                   | 0.00     | 31.00    | 0.00     | 0.00     | 0.00     | 0.00     | 5.00     | 30.00    | 0.00      | 0.00      | 0.00      | 0.00  | 0.00     | 0.00  | 0.00         | 0.00      | 0.00  | 0.00      | 14.20     | 58.00     | 9.60      | 0.00      | 0.00      | 120.80    |           |           |
| Katoriya     | 1997 | 0.00                                   | 0.00     | 11.50    | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 0.00      | 0.00      | 0.00  | 0.00     | 2.50  | 0.00         | 2.00      | 0.00  | 0.00      | 6.00      | 94.50     | 0.00      | 11.40     | 21.60     | 188.60    |           |           |
| Weighted RF  | 1997 | 0.00                                   | 0.00     | 25.35    | 0.00     | 0.00     | 0.00     | 0.00     | 3.55     | 21.31    | 0.00      | 0.00      | 0.00      | 0.00  | 0.00     | 0.00  | 0.72         | 0.00      | 26.16 | 12.50     | 0.00      | 11.83     | 68.57     | 6.82      | 3.30      | 6.25      | 140.43    |           |
| Deoghar      | 1998 | 0.00                                   | 0.00     | 4.00     | 8.00     | 12.00    | 0.00     | 0.00     | 12.00    | 4.80     | 5.80      | 8.40      | 26.80     | 40.80 | 0.00     | 14.50 | 4.50         | 39.40     | 0.00  | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 63.70     | 82.60     | 13.70     |           |
| Katoriya     | 1998 | 0.00                                   | 0.00     | 0.00     | 0.00     | 12.00    | 0.00     | 0.00     | 12.00    | 4.80     | 5.80      | 8.40      | 26.80     | 40.80 | 0.00     | 14.50 | 4.50         | 39.40     | 0.00  | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 63.70     | 82.60     | 13.70     |           |
| Weighted RF  | 1998 | 0.00                                   | 0.00     | 2.84     | 5.68     | 12.00    | 0.00     | 0.00     | 12.00    | 4.80     | 5.80      | 8.40      | 26.80     | 40.80 | 0.00     | 14.50 | 4.50         | 39.40     | 0.00  | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 63.70     | 82.60     | 13.70     |           |
| Deoghar      | 1999 | 0.00                                   | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 0.00      | 0.00      | 0.00  | 0.00     | 0.00  | 0.00         | 0.00      | 0.00  | 22.50     | 1.50      | 10.50     | 8.00      | 0.00      | 69.90     | 54.50     | 71.10     |           |
| Katoriya     | 1999 | 0.00                                   | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 0.00      | 0.00      | 0.00  | 0.00     | 0.00  | 0.00         | 0.00      | 0.00  | 54.00     | 7.60      | 27.80     | 0.00      | 0.00      | 119.10    | 57.00     | 161.70    |           |
| Weighted RF  | 1999 | 0.00                                   | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 0.00      | 0.00      | 0.00  | 0.00     | 0.00  | 0.00         | 0.00      | 0.00  | 31.62     | 3.27      | 15.51     | 5.68      | 0.00      | 84.14     | 55.22     | 97.33     |           |
| Deoghar      | 2000 | 0.00                                   | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 20.50     | 0.00      | 0.00  | 0.00     | 41.00 | 0.00         | 32.50     | 23.50 | 0.00      | 26.00     | 32.50     | 0.00      | 64.50     | 34.50     | 72.60     | 16.00     |           |
| Katoriya     | 2000 | 0.00                                   | 0.00     | 0.00     | 0.00     | 0.00     | 26.00    | 2.00     | 0.00     | 0.00     | 0.00      | 0.00      | 0.00      | 0.00  | 0.00     | 0.00  | 58.00        | 0.00      | 0.00  | 0.00      | 53.60     | 0.00      | 16.00     | 23.50     | 25.00     | 116.70    | 18.50     |           |
| Weighted RF  | 2000 | 0.00                                   | 0.00     | 0.00     | 0.00     | 0.00     | 7.53     | 0.58     | 0.00     | 0.00     | 0.00      | 14.56     | 0.00      | 0.00  | 0.00     | 29.13 | 16.79        | 23.09     | 16.70 | 0.00      | 33.99     | 23.09     | 4.63      | 52.63     | 31.75     | 85.37     | 16.72     |           |
| Deoghar      | 2001 | 0.00                                   | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 0.00      | 0.00      | 7.20  | 0.00     | 0.00  | 9.40         | 0.00      | 5.20  | 8.20      | 16.80     | 0.00      | 73.20     | 45.20     | 52.60     | 225.40    | 59.40     |           |
| Katoriya     | 2001 | 0.00                                   | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 0.00      | 0.00      | 0.00  | 0.00     | 49.00 | 0.00         | 0.00      | 50.80 | 13.60     | 0.00      | 0.00      | 0.00      | 0.00      | 164.20    | 107.20    | 12.80     |           |
| Weighted RF  | 2001 | 0.00                                   | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 0.00      | 0.00      | 5.12  | 0.00     | 14.19 | 6.68         | 0.00      | 18.40 | 9.76      | 11.94     | 0.00      | 52.01     | 32.11     | 84.91     | 191.18    | 45.91     |           |
| Deoghar      | 2002 | 0.00                                   | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 3.00     | 2.00     | 0.00      | 0.00      | 0.00      | 0.00  | 0.00     | 11.00 | 0.00         | 8.60      | 7.00  | 13.00     | 4.00      | 7.00      | 21.00     | 34.50     | 55.00     | 35.00     | 100.40    | 30.00     |
| Katoriya     | 2002 | 0.00                                   | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 0.00      | 0.00      | 0.00  | 0.00     | 20.20 | 0.00         | 0.00      | 0.00  | 12.60     | 0.00      | 53.50     | 24.00     | 5.40      | 0.00      | 0.00      | 56.60     | 100.80    |
| Weighted RF  | 2002 | 0.00                                   | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 2.13     | 1.42     | 0.00      | 0.00      | 0.00      | 0.00  | 0.00     | 13.66 | 0.00         | 6.11      | 4.97  | 12.88     | 2.84      | 20.46     | 21.87     | 26.08     | 39.08     | 24.87     | 87.72     | 50.50     |
| Deoghar      | 2003 | 0.00                                   | 0.00     | 0.00     | 0.00     | 3.60     | 0.00     | 7.40     | 18.40    | 0.00     | 0.00      | 20.00     | 9.90      | 0.00  | 0.00     | 0.00  | 0.00         | 0.00      | 0.00  | 0.00      | 0.00      | 0.00      | 0.00      | 10.40     | 17.20     | 61.20     | 51.30     |           |
| Katoriya     | 2003 | 0.00                                   | 0.00     | 0.00     | 0.00     | 18.00    | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 0.00      | 0.00      | 0.00  | 0.00     | 0.00  | 0.00         | 0.00      | 0.00  | 0.00      | 0.00      | 0.00      | 0.00      | 10.40     | 17.20     | 61.20     | 51.30     |           |
| Weighted RF  | 2003 | 0.00                                   | 0.00     | 0.00     | 0.00     | 7.77     | 0.00     | 5.26     | 13.07    | 0.00     | 0.00      | 14.21     | 7.03      | 0.00  | 0.00     | 0.00  | 0.00         | 0.00      | 0.00  | 0.00      | 0.00      | 0.00      | 0.00      | 10.40     | 17.20     | 61.20     | 51.30     |           |
| Deoghar      | 2004 | 0.00                                   | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 6.50      | 0.00      | 0.00      | 0.00  | 0.00     | 0.00  | 0.00         | 12.40     | 0.00  | 0.00      | 0.00      | 22.60     | 0.00      | 13.00     | 27.00     | 279.40    | 0.00      |           |
| Katoriya     | 2004 | 0.00                                   | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 6.50      | 0.00      | 0.00      | 0.00  | 0.00     | 0.00  | 0.00         | 12.40     | 0.00  | 0.00      | 0.00      | 22.60     | 0.00      | 0.00      | 14.40     | 440.40    | 19.80     |           |
| Weighted RF  | 2004 | 0.00                                   | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 6.50      | 0.00      | 0.00      | 0.00  | 0.00     | 0.00  | 0.00         | 12.40     | 0.00  | 0.00      | 0.00      | 22.60     | 0.00      | 9.24      | 23.35     | 326.01    | 5.73      |           |
| Deoghar      | 2005 | 0.00                                   | 0.00     | 8.40     | 2.00     | 5.60     | 21.00    | 0.00     | 0.00     | 0.00     | 4.20      | 2.40      | 28.40     | 0.00  | 0.00     | 7.90  | 9.50         | 0.00      | 9.60  | 0.00      | 8.00      | 14.90     | 0.00      | 22.00     | 0.00      | 32.60     | 158.60    |           |
| Katoriya     | 2005 | 0.00                                   | 0.00     | 8.40     | 2.00     | 5.60     | 21.00    | 0.00     | 0.00     | 0.00     | 4.20      | 2.40      | 28.40     | 0.00  | 0.00     | 7.90  | 9.50         | 0.00      | 9.60  | 0.00      | 8.00      | 14.90     | 0.00      | 22.00     | 0.00      | 32.60     | 158.60    |           |
| Weighted RF  | 2005 | 0.00                                   | 0.00     | 8.40     | 2.00     | 5.60     | 21.00    | 0.00     | 0.00     | 0.00     | 4.20      | 2.40      | 28.40     | 0.00  | 0.00     | 7.90  | 9.50         | 0.00      | 9.60  | 0.00      | 8.00      | 14.90     | 0.00      | 22.00     | 0.00      | 32.60     | 158.60    |           |
| Deoghar      | 2006 | 0.00                                   | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 0.00      | 0.00      | 0.00  | 0.00     | 0.00  | 0.00         | 0.00      | 0.00  | 0.00      | 0.00      | 0.00      | 184.50    | 0.00      | 38.20     | 38.50     |           |           |
| Katoriya     | 2006 | 0.00                                   | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 0.00      | 0.00      | 0.00  | 0.00     | 0.00  | 0.00         | 0.00      | 0.00  | 0.00      | 0.00      | 0.00      | 0.00      | 184.50    | 0.00      | 38.20     | 38.50     |           |
| Weighted RF  | 2006 | 0.00                                   | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 0.00      | 0.00      | 0.00  | 0.00     | 0.00  | 0.00         | 0.00      | 0.00  | 0.00      | 0.00      | 0.00      | 0.00      | 184.50    | 0.00      | 38.20     | 38.50     |           |
| Deoghar      | 2007 | 0.00                                   | 0.00     | 0.00     |          |          |          |          |          |          |           |           |           |       |          |       |              |           |       |           |           |           |           |           |           |           |           |           |



**CHANDAN RESERVOIR SCHEME**  
**COMPUTATION OF WEEKLY WEIGHTED RAINFALL IN MM**

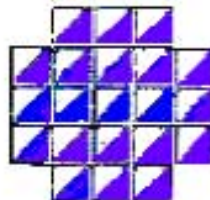
| Station name | Year | Weighted areas of RG Stations in Ha :- |          |          |          |          |          |          |          |          |           | 40366 | Katoriya | 16449  | Total Area = |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|--------------|------|--|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-------|----------|--------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|              |      | 1st Week                               | 2nd Week | 3rd Week | 4th Week | 5th Week | 6th Week | 7th Week | 8th Week | 9th Week | 10th Week |       |          |        | 11th Week    | 12th Week | 13th Week | 14th Week | 15th Week | 16th Week | 17th Week | 18th Week | 19th Week | 20th Week | 21st Week | 22nd Week | 23rd Week | 24th Week | 25th Week |
| Weighted RF  | 2006 | 22.20                                  | 338.00   | 29.00    | 40.50    | 42.00    | 46.00    | 44.00    | 111.50   | 25.50    | 6.50      | 76.50 | 247.20   | 208.50 | 0.00         | 0.00      | 4.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| Deoghar      | 2007 | 86.00                                  | 57.20    | 262.00   | 203.00   | 304.90   | 33.10    | 129.40   | 1.60     | 20.60    | 39.00     | 33.00 | 13.20    | 269.20 | 56.60        | 7.60      | 14.20     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| Katoriya     | 2007 | 34.00                                  | 68.40    | 325.00   | 208.50   | 35.00    | 30.00    | 339.50   | 19.50    | 12.00    | 15.50     | 0.00  | 30.00    | 345.00 | 36.00        | 0.00      | 19.50     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| Weighted RF  | 2007 | 70.95                                  | 60.44    | 280.24   | 204.59   | 226.76   | 32.20    | 190.23   | 6.78     | 18.11    | 32.20     | 23.45 | 18.06    | 291.15 | 50.64        | 5.40      | 15.73     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| Deoghar      | 2008 | 74.60                                  | 83.00    | 124.20   | 33.60    | 2.20     | 129.10   | 40.80    | 67.80    | 13.60    | 16.80     | 25.20 | 43.60    | 45.00  | 13.80        | 5.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| Katoriya     | 2008 | 82.50                                  | 79.00    | 122.00   | 29.50    | 4.10     | 62.50    | 82.00    | 68.00    | 0.00     | 0.00      | 23.00 | 42.00    | 0.00   | 12.00        | 5.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| Weighted RF  | 2008 | 76.89                                  | 81.84    | 123.56   | 32.41    | 2.75     | 109.82   | 52.73    | 67.86    | 9.66     | 11.94     | 24.56 | 43.14    | 31.97  | 13.28        | 5.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| Deoghar      | 2009 | 9.20                                   | 12.40    | 62.80    | 4.00     | 0.00     | 69.60    | 102.00   | 169.40   | 71.20    | 229.60    | 12.00 | 23.00    | 2.00   | 53.60        | 65.00     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| Katoriya     | 2009 | 18.00                                  | 45.50    | 112.40   | 0.00     | 1.00     | 48.00    | 61.50    | 114.00   | 41.50    | 166.50    | 22.00 | 97.50    | 68.50  | 42.50        | 36.00     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| Weighted RF  | 2009 | 11.75                                  | 21.98    | 77.16    | 2.84     | 0.29     | 63.35    | 90.27    | 153.36   | 62.60    | 211.33    | 14.90 | 44.57    | 21.25  | 50.39        | 56.60     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |





**NANO SYSTEM CONSULTANTS PVT. LTD.**

## **COMPANY PROFILE**



**Head Office: -**  
**Dr. Fatehullah Road**  
**Roy Compound,**  
**Ranchi - 834001**  
**Tel No. - 9234302653**  
**Fax No. - 0651 - 2206414**  
**E-mail - [nano\\_ranchi@sify.com](mailto:nano_ranchi@sify.com)**  
**[nano\\_ranchi@rediff.com](mailto:nano_ranchi@rediff.com)**

**Branch Office: -**  
**Sinha Sadan, Bari path Mahendru, Patna - 800006**



# **NANO SYSTEM CONSULTANTS PVT. LIMITED**

## **BACKGROUND**

Nano System Consultants (NSC) is a professional multidisciplinary organization committed to provide quality consultancy and implementation services in many disciplines of development and management.

NSC has scores of in-house professionals with long experience and high academic qualifications and has strong Backward & Forward Linkages, viz. arrangements of association with experts of National reputed organizations and teams of construction engineers and managers. It's professional and associates work in interdisciplinary way for meeting the varied and specific requirements of assignments on hand.

NSC specialists are upto date and well conversant with modern techniques of specialization. They apply appropriate technology for handling various aspects of the problems and provide the most required efficient and cost effective solutions.

## **STRUCTURE AND ORGANIZATION**

Nano System Consultants is a Private Limited Company comprising a Board of Directors who are engineers of repute, and businessmen, ably supported by experts in various disciplines of highest caliber and actively involved in client engagements.

**BOARD OF DIRECTORS**

**1 Er. P. N. Sinha**

B.Sc. Engg. (Civil), FIE, Retd. Chief Engineer Planning & Monitoring, WRD, GOJ,  
Sr. Consultant, Water Resources Management, Civil Engineering,  
Planning & Monitoring, Administration.  
Chairman cum Managing Director - Nano System Consultants (P) Ltd.

**2 Mr. I. Ahmad Khan**

B.A. (Hons), Businessman, Contractor, B.P.D.P. Projects, WRD Projects,  
Director - Nano System Consultants (P) Ltd

**FIELDS OF ACTIVITY**

Nano System Consultants are a truly interdisciplinary group, capable of undertaking any type of technological investigations, Planning and Design, research, training and construction assignments. Its field of specialization:

- Water Resources Development and Management including Tailing Dams.
- Land and Watershed Management and Waste land Development
- Groundwater Development
- Energy and power (conventional and non-conventional)
- Environmental Engineering (Water Supply, Sewerage, Drainage, Wastewater Treatment, Pollution Control, Solid Waste Management, Toxic and Hazardous waste management, Treatment of Industrial Effluent.)
- Ecology, Forest, Wildlife and Environment Conservation and Management Plans and Programmes.
- Engineering Management
- Architecture, Interior Design, Landscape Architecture, Town planning
- Housing and Building Construction
- Bridges, Highways and Expressways.
- Rural Roads, Culverts and Small Bridges.
- People's Participation, PRA, RRA & SARAR Approach
- Industrial projects – Study of Land and Hydrology.

## **SCOPE OF SERVICES**

Nano System Consultants – renders comprehensive consultancy services right from requirement / gap analysis, system study, project inception, formulation and concept planning to the project implementation and commissioning.

## **THE SERVICES INCLUDE**

- Project Identification
- Techno-economic Feasibility studies
- Field Surveys, Investigation and Analysis
- Economic and Financial analysis
- Conceptual design
- Planning Detailed Engineering Design, Technical Specifications and Tender Documents.
- Preparation of Bankable Projects.
- Industrial and Organization strengthening
- Procurement assistance including Pre-qualification
- Project Management Services, Monitoring and Scheduling
- Construction Supervision and Quality Control Assurance
- Operation and Maintenance
- Data Conversion and Preparation of Digital Maps, Digitization of maps
- Performance Evaluation
- Impact assessment – Environmental and Socio – economic
- Technology Transfer

| <b>Water Supply Schemes</b>                 | <b>Rate in lacs</b> | <b>Empanelled firms</b>  |
|---|---------------------|--|
| (a) Project Cost upto 5 Crore               | 375000              | 1. M/S Genesis Fintec Ltd.,<br>2. Interface Architects Pvt. Ltd.,<br>3. Setech (India), Consulting Engineers |
| (b) Project Cost from 5 Crore to 25 Crore   | 700000              | 4. Centre For Social & Environmental Care<br>5. MSV International  |
| (c) Project Cost from 25 Crore to 50 Crore  | 1800000             | 1. M/S Genesis Fintec Ltd.,<br>2. Interface Architects Pvt. Ltd.,<br>3. Setech (India), Consulting Engineers |
| (d) Project Cost from 50 Crore to 100 Crore | 2667000             | 4. Centre For Social & Environmental Care<br>5. MSV International<br>6. Nano System Consultants (P) Ltd.     |
| <b>Drainage Schemes</b>                     |                     |  |
| (a) Project Cost upto 5 Crore               | 400000              | 1. M/S Genesis Fintec Ltd.,<br>2. Interface Architects Pvt. Ltd.,<br>3. Setech (India), Consulting Engineers |
| (b) Project Cost from 5 Crore to 25 Crore   | 825000              | 4. Centre For Social & Environmental Care<br>5. MSV International  |
| (c) Project Cost from 25 Crore to 50 Crore  | 2050000             | 1. M/S Genesis Fintec Ltd.,<br>2. Interface Architects Pvt. Ltd.,<br>3. Setech (India), Consulting Engineers |
| (d) Project Cost from 50 Crore to 100 Crore | 4100000             | 4. Centre For Social & Environmental Care<br>5. MSV International<br>6. Nano System Consultants (P) Ltd.     |
| <b>Sewerage Schemes</b>                     |                     |  |
| (a) Project Cost upto 5 Crore               | 349250              | 1. M/S Genesis Fintec Ltd.,  |
| (b) Project Cost from 5 Crore to 25 Crore   | 762000              | 2. Setech (India), Consulting Engineers  |
| (c) Project Cost from 25 Crore to 50 Crore  | 1244600             | 3. Centre For Social & Environmental Care  |
| (d) Project Cost from 50 Crore to 100 Crore | 1778000             | 4. MSV International   |

Yours faithfully

Sd/-

(Madan Kumar)

Engineer in Chief cum Special Secretary

## Major Assignments of the Organisation

### OUTLINE OF EXPERIENCES

| S. No. | Name of Assignment with Work Order /Agreement  | Name of Department / Sponsoring Authority            | Cost of Assignment In Lacs | Present Progress |
|--------|--|--|----------------------------|------------------|
| 1      | Preparation of DPR for Providing Urban Amenities in Rural Areas (PURA) - Hazaribagh. Jharkhand Agreement No. - NIL Dt. - 15.07.04  | District Rural Development Agency (DRDA), Hazaribagh | 1.30                       | Complete         |
| 2      | Preparation of DPR for Providing Urban Amenities in Rural Areas (PURA) - Giridih Jharkhand Agreement No. - NIL, Dt.-06.10.2004   | District Rural Development Agency (DRDA), Giridih    | 1.30                       | Complete         |
| 3      | Preparation of DPR for a Bus terminal at Medininagar, Palamu Jharkhand Agreement No. - NIL Dt. - 04.10.04  | Special Officer , Daltonganj Municipality            | 1.25                       | Complete         |
| 4      | Survey, Investigation, Design, Drawing and estimates of all components of Suru Reservoir Scheme in Saraikela Kharsawan Jharkhand Agreement No. - NCCL/SRP/NANO/AMEND/147, Dt. - 06/09/2006 | Nagarjun Construction Company Limited Hyderabad      | 26.96                      | Complete         |
| 5      | Preparation of DPR for Subernarekha Rehabilitation Programme in East & West Singhbhum, Jharkhand Agreement No. - 349, Dt. - 23/12/2004   | Subernarekha Multipurpose Project (SMP) Jamshedpur   | 2.49                       | Complete         |
| 6      | Survey of Galudih Site , Preparation of index map & generation of 1 m contour in East Singhbhum Jharkhand Agreement No. - 5 CSL/F/34/11 Dt.- 15/04/2005                                    | Contisteel Ltd, New Delhi                            | 0.50                       | Complete         |
| 7      | Hydrology and design detail etc of dam on Koina river for water availability for steel plant at Manoharpur, Distt. West Singhbhum. Work Order - HGPL-Wat/Hydro-110 Dt. 10/05/05            | Hy-GRADE PELLETS LTD., Vishakhapatnam                | 4.96                       | Complete         |
| 8      | Preparation of DPR for Providing Urban Amenities in Rural Areas (PURA) Chatra, Jharkhand Agreement no. Nill Dt. - 08/06/05   | District Rural Development Agency (DRDA), Chatra     | 1.92                       | Complete         |
| 9      | Survey. Investigation, Design Drawing And estimate of all components of Bhairwa Reservoir Scheme Ramgarh, Jharkhand Work Order - VCL/326/05 Dt. - 04/07/05                                 | Vijeta construction Ltd, Ranchi                      | 26.00                      | complete         |
| 10     | Hydrological study of river Koina near Manoharpur for supplying water to re beneficentation plant in West Singhbhum, Jharkhand Tender no.- 11.83.10098/VOL-1/HYDRO/WO Dt. 30.06.2005       | MECON Limited Ranchi                                 | 2.25                       | Complete         |
| 11     | Survey of Ichagarh & Nimidih site and land identification for steel plant in Saraikela Kharsawan, Jharkhand. Work order no. - JSW/JKD/04/05 Dt. - 08.10.2005                               | Jindal Steel Works (JSW) Ranchi                      | 6.00                       | Complete         |
| 12     | Preparation of land acquisition details in Lalgah (North) coal sub block in Bokaro, Jharkhand. Ref : B-P/Domco/Nano/D-1/05-06/234 Dt. 10.02.2006   | DOMCO Private Limited, Ranchi                        | 0.70                       | Complete         |

| S. No. | Name of Assignment with Work Order /Agreement   | Name of Department / Sponsoring Authority  | Cost of Assignment In Lacs | Present Progress |
|--------|---|--|----------------------------|------------------|
| 13     | Survey, Investigation, Design, Drawing and estimates of all components of Ramrekha Reservoir Scheme Simdega, Jharkhand Ref No. VCL/68/06 Dt. - 08.03.06   | Vijeta Construction Ltd, Ranchi  | 24.50                      | complete         |
| 14     | Performance evaluation of Chandan Reservoir Scheme, Bhagalpur, Bihar. Agreement No. - NIL Dt. - 07.04.2006  | Water And Land Management Institute (WALMI), Patna   | 9.81                       | complete         |
| 15     | Preparation of DPR for Udersthan Barrage project - a modernisation project. Agreement No. - NIL Dt. - 06.06.2006  | Executive Engineer, Waterways Division, Jehanabad  | 49.97                      | Complete         |
| 16     | Preparation of DPR for a modern Slaughter house at Ranchi including project management services Agreement No. - NIL Dt. - 16.06.2006  | Ranchi Municipal Corporation, Ranchi   | 45.00                      | Complete         |
| 17     | Detail Project Report for Water Availability for 1 x 135 MW Power Plant at Moitra, Badkagoan Block, District Hazaribagh. Work Order No.- NKCCCL/06-07/SO Dt.- 22.08.2006  | North Karanpura Coal Co. Ltd. Main Road, Ranchi  | 8.42                       | Complete         |
| 18     | Detail Project Report for Water Availability for 4 x 125 MW Power Plant at Chitapur, Chandwa Block, District Latehar Work Order No.-CCPL/06-07/SO Dt.- 22.08.2006   | M/S Chitarpur Coal & Power Ltd. Main Road, Ranchi  | 8.42                       | Complete         |
| 19     | Preparation of Pre-Feasibility Report for source of water for 1200 MW thermal Power Plant in Balumath Block, Latehar Dist. Work Order No. NIL Dt. 03.11.206   | Electrosteel Castings Limited 19, Camac Street, Kolkata - 700017   | 0.80                       | Complete         |
| 20     | Studies on Kanke Reservoir regarding Silt estimation, desilting, silt disposal, control of algee growth, environmental impact assessment & management for water quality Agreement No. - 46F2/06-07 Dt. 02.12.2006   | Drinking Water and Sanitation Division Gonda, Ranchi.  | 15.74                      | Complete         |
| 21     | Preparation of Pre Feasibility Report and Detailed Project Report for Water Supply Scheme for different area under Munger, Bhagalpur, Katihar, Khagaria and Begusarai. Agreement No. NIL Dt. - 19.01.07   | Public Health Engineering Department, Government of Bihar, Vishveshwaraiya Bhawan, Bailey Road, Patna - 800015 | 38.00                      | Complete         |
| 22     | Survey Planning, Design & Processing Land Acquisition Cases for Macro Irrigation System in Command area of Suliapada Distributary off taking at R..D. 19525M of Simanta Distrubutary (Approximate GCA 3065 Ha.) Agreement No. 13F2/06-07 Dt.- 02.03.07                              | Subernarekha Irrigation Project, Department of Water Resources, Government of Orissa                           | 11.14                      | Complete         |
| 23     | Survey Planning, Design & Processing Land Acquisition Cases for Macro Irrigation System in Command area of Simanta Distributary from R..D. 6790M to 18025M off taking at R.D. 20220M of Subarnarekha Branch Canal (Approximate GCA 3564 Ha.) Agreement No. -12F2/06-07 Dt. 02.03.07 | Subernarekha Irrigation Project, Department of Water Resources, Government of Orissa                           | 12.92                      | Complete         |

| S. No. | Name of Assignment with Work Order /Agreement  | Name of Department / Sponsoring Authority  | Cost of Assignment In Lacs | Present Progress |
|--------|--|--|----------------------------|------------------|
| 24     | Survey Planning, Design & Processing Land Acquisition Cases for Macro Irrigation System in Command area of Simanta Distributary from R..D. 32152M to 43027M off taking at R.D. 20220M of Subarnarekha Branch Canal (Approximate GCA 3964 Ha) Agreement No. - 11F2/06-07 Dt. 28.02.2007 | Subernarekha Irrigation Project, Department of Water Resources, Government of Orissa           | 14.76                      | Complete         |
| 25     | Survey, Planning, Design & Processing land acquisition cases for macro irrigation system in command area of Simanta distributary from RD 18025M to 32152M off taking at RD 20220M of Subarnarekha Branch Canal (Approximate GCA 3219 Ha) Agreement No. 10F2/06-07 Dt. 28.02.2007       | Subernarekha Irrigation Project, Department of Water Resources, Government of Orissa           | 12.06                      | Complete         |
| 26     | Preparation of DPR for Environmental Improvement of Ranchi Township through River Front Development and Lake / Ponds Conservation and Development Agreement No. - NIL Dt. - 09.03.2007   | Ranchi Municipal Corporation, Ranchi   | 45.00                      | Complete         |
| 27     | Preparation of DPR for Drinking Water Supply for Ranchi Township Agreement No. - NIL Dt. - 09.03.2007  | Ranchi Municipal Corporation, Ranchi   | 130.00                     | complete         |
| 28     | Preparation of land acquisition proposal / land schedule and copy of cadastral map for Raiyati, Govt. and Forest land in Dumri Block. Work Order No. BVM/nano/06-07/437 Dt. - 27.01.07   | Brahmani Valley Mines & Minerals Pvt. Ltd. 104, Rajasthali Palace, Kanke Road, Ranchi - 834008 | 2.00                       | complete         |
| 29     | DPR Preparation for sewerage & drainage in Giridih town, Jharkhand Agreement No. - NIL Dt. - 16.04.2007  | Giridih, Jharkhand   | 9.75                       | complete         |
| 30     | Study and survey of water intake (Part-I) Ref : ECL/NDTP/SUB/402 Dt. - 30.04.2007  | Electrosteel Castings Ltd., Kolkata  | 0.41                       | Complete         |
| 31     | Detailing of topographic map at the mainplant, Patam river intake and Sukri river intake. Ref. : Study of DEM/Nano/III Dt. - 30.05.07  | Electrosteel Castings Ltd. Kolkata   | 0.60                       | Complete         |
| 32     | Consultancy work for preparing application for withdrawal of 5000m <sup>3</sup> /hr of water from Kuda river for developing 12000 MW Power Plant at Banka in Bihar. Work Order No. - CPL/NBD/CIVIL/LOI/003/07-08 Dt. - 14.08.07  | Corporate Power Ltd., Ranchi   | 0.40                       | Complete         |
| 33     | Consultancy work for preparing application for withdrawal of 8000m <sup>3</sup> /hr of water from Maithon Dam for developing 1200 MW Power Plant at Baraboni, Burdwan in West Bengal. Work Order No. - CPL/NBD/CIVIL/LOI/004/07-08 Dt. - 14.08.07                                      | Corporate Power Ltd., Ranchi   | 0.40                       | Complete         |
| 34     | Consultancy services for water withdrawal system 5000m <sup>3</sup> /hr from river Amanat for 1215 MW Power Plant near Chandwa Distt. Latehar. Work Order No. - CCPL/WO/11/07-08 Dt. - 26.05.07  | Chitarpur Coal and Power Ltd.  | 1.24                       | Complete         |



| S. No. | Name of Assignment with Work Order /Agreement   | Name of Department / Sponsoring Authority  | Cost of Assignment In Lacs | Present Progress |
|--------|---|--|----------------------------|------------------|
| 35     | Preparation of DPR of Baksoti Barrage Scheme on river SAKRI and conversion of NATA weir to a barrage on river NATA in Nawadah District with Suitable link from SAKRI river to NATA river from Baksoti Barrage site Agreement No. - NIL Dt. 12.09.07   | Water Resources Dept. Govt. of Bihar Through Integrated Hydro Forum, Patna           | 67.00                      | Complete         |
| 36     | Consultancy services to assess availbilty of water from river Ijri for Steel Plant.Work Order No. EIL/113/003/07 Dt. - 20.08.07   | Electrosteel Castings Ltd., Kolkata  | 1.00                       | Complete         |
| 37     | Consultancy services for water withdrawal system 5000m <sup>3</sup> /hr from river Amanat for II nd phase of 1200 MW Power Project at Latehar, Jharkhand. Work Order No. - CPL/SERVICE ORDER/CIVIL/016/07-08 Dt. - 31.10.2007   | Corporate Power Ltd., Ranchi   | 33.51                      | Complete         |
| 38     | Water availability calculation report on Water Intake location at Patam, Harharo & Sukri river, near ECL 1200 MW Power Project Site. Ref.: ETPL/NDTP/402 Dt. - 12.10.2007   | Electrosteel Castings Ltd., Kolkata  | 1.00                       | Complete         |
| 39     | Consultancy work for preparing application for withdrawal of 120m <sup>3</sup> /hr (Phase-I) and 280m <sup>3</sup> /hr (Phase-II) of water for developing our proposed 3x1.2MTPA benificiation/palletisation Plant Project at Village Gourdighiya Jagannathpur Dis. West Singhbhum. Work Order No. : AIL/Steel/Civil/WO/07-08/03 Dt. - 19.11.2007 | Abhijet Infrastructure Ltd, Ranchi   | 0.30                       | Complete         |
| 40     | Consultancy work for preparing application for withdrawal of 100m <sup>3</sup> /hr (Phase-I) and 250m <sup>3</sup> /hr (Phase-II) of water for developing our proposed 0.75 MTPA Steel Plant Project at Village Kalebira Dist. Saraikela-Kharsawan. Work Order No. : AIL/Steel/Civil/WO/07-08/02 Dt. - 19.11.2007                                 | Abhijet Infrastructure Ltd., Ranchi  | 0.30                       | Complete         |
| 41     | Consultancy work for preparing application for withdrawal of 400m <sup>3</sup> /hr (Phase-I) and 4340m <sup>3</sup> /hr (Phase-II) of water for developing our proposed 2.5 MTPA Integrated Steel Plant Project at Village Birbans Dist. Saraikela-Kharsawan. Work Order No. : CAIL/Steel/Civil/WO/07-08/02 Dt. - 19.11.2007                      | Corporate Ispat Alloys Ltd., Ranchi  | 0.30                       | Complete         |
| 42     | Survey, planning, design & processing land acquisition cases for macro irrigation system in command area of Baisinga Branch Canal at RD 16635 M to 25335 M with its minors & sub-minors off taking from RD 00 M from Baura Reservoir (Approximate GCA 2020 Ha) Agreement No. - 29F2/07-08 Dt. - 14.03.08  | Subernarekha Irrigation Project, Department of Water Resources, Government of Orissa | 8.57                       | Complete         |

| S. No. | Name of Assignment with Work Order /Agreement  | Name of Department / Sponsoring Authority  | Cost of Assignment In Lacs | Present Progress              |
|--------|--|--|----------------------------|-------------------------------|
| 43     | Survey, planning, design & processing land acquisition cases for macro irrigation system in command area of Baisinga Branch Canal at RD 00 M to 16635 M with its minors & sub-minors off taking from RD 00 M from Daura Reservoir (Approximate GCA 1799.175 Ha) Agreement No. - 28F2/ 07-08 Dt. - 14.03.08 | Subernarekha Irrigation Project, Department of Water Resources, Government of Orissa | 8.36                       | Complete                      |
| 44     | Consultancy work for preparing application for withdrawal of 43.80 MCM of water for developing 1215 MW Thermal Power Plant in Village Chakla, Latehar District.(Damodar River) Work Order No. - NIL Dt. 01.04.2008   | Corporate Ispat Alloys Ltd., Ranchi  | 0.50                       | Complete                      |
| 45     | Preparation of DPR of Dominia Irrigation Project Wrk Order No. - NIL Dt. 28.04.08  | Executive Engineer, Waterways Division, Garhwa                                       | 2.00                       | Complete                      |
| 46     | Feasibility study for availability of water from River Ghagri and Land Acquisition details, in village An, Dist.- Latehar Ref No.- KPG/ RNC/61/01 Dt. - 30.01.2008   | Koundanyashya Power Generation Pvt Ltd., Hyderabad                                   | 1.00                       | Complete                      |
| 47     | Preparation of DPR for a Modern Slaughter house at Dhanbad. Agreement No. - NIL Dt. - 12.05.2008   | Dhanbad Municipal Corporation, Dhanbad   | 30.00                      | Work Abandoned by Corporation |
| 48     | Availability of water and site selection for 2x600 MW Thermal Power Plant in Jharkhand State. Work Order No. - EPIPL/NC/2008/107 Dt. - 18.04.2008  | Era Group of Companies, New Delhi  | 0.75                       | Complete                      |
| 49     | Survey, planning, design & processing land acquisition cases for macro irrigation system in command area of Baisinga Branch Canal at RD 32385 M to 49995 M with its minors & sub-minors (Approximate GCA 1963 Ha) Agreement No. - 03F2/08-09   | Subernarekha Irrigation Project, Department of Water Resources, Government of Orissa | 9.42                       | Complete                      |
| 50     | Survey, planning, design & processing land acquisition cases for macro irrigation system in command area of Baisinga Branch Canal at RD 49995 M to 58965 M with its minors & sub-minors (Approximate GCA 2273 Ha) Agreement No. - 04F2/08-09   | Subernarekha Irrigation Project, Department of Water Resources, Government of Orissa | 9.77                       | Complete                      |
| 51     | Consultancy for water Chandan Dam, Banka. Work Order No. - 4800000553 Dt. - 03.06.2008   | Jas Infrastructure Capita Private Limited, Ranchi                                    | 0.50                       | Complete                      |
| 52     | Preparation of design, detailed computation and preparation of DPR of embankment to be prepared in between Sikni Extension Coal Project at Latehar district of JSMDCLtd. and adjoining pathaljore nala. Letter No. - 1148 Dt. - 07.06.2008   | Jharkhand State Mineral Development Corporation Limited, Ranchi                      | 1.98                       | Complete                      |
| 53     | Confirmatory study of 100 MLD water availability in River Damodar at Intake point for the Steel Plant Work Order No. - WO/000005/08-09/0 Dt. - 15.06.2008  | Electrosteel Integrated Ltd., Ranchi   | 0.95                       | Complete                      |

| S. No. | Name of Assignment with Work Order /Agreement  | Name of Department / Sponsoring Authority | Cost of Assignment In Lacs | Present Progress |
|--------|--|---|----------------------------|------------------|
| 54     | Hydrological Studies at Sonahatu for Hindalco's proposed Green Field Aluminium Project. Ref No. : RAN/PROJ./CONSULTANCY/CONTRACT/07-08/119 Dt. - 02.08.2008  | Hindalco Industries Limited, Ranchi       | 8.00                       | Complete         |
| 55     | Location of four no. suitable land sitesfor seamless pipes (1000 acres) and four no. locations for 1200 MW Power Plant (1500 acres). Agreement No. - NIL Dt. - 19.08.2008  | Jindal Pipes Limited, Gurgaon             | 0.50                       | Complete         |
| 56     | Issue of Work order for the consultancy services for water withdrawal application (5000 m3/hr) from river North Koelfor 4 x 300 MW Power Plant project in Garwah Block, Palamu, Jharkhand. Work Order No. - NIL Dt. - 27.08.08 | Usha Martin, Ranchi                       | 1.75                       | Complete         |
| 57     | Preparation of Detailed Project for Bus stand , Chatra Nagar Parshad Agreement No. - NIL Dt. - 04.09.2008  | Nagar Parshad , Chatra                    | 1.50                       | Complete         |
| 58     | Land Related survey of 10 villages at Sonahatu Work Order No. - RAN/PROJ./CONSULTANCY/CONTRACT/07-08/120 Dt. - 22/10/2008  | Hindalco Industries Limited, Ranchi       | 2.75                       | Complete         |
| 59     | Design and Drawing of intake well of river side pump house at Ramgarh Cantt Work order no. 3007/A/WO/71/E3 Dt. 15.11.2008.   | Ramgarh Cantt.                            | 0.48                       | Complete         |
| 60     | Survey for pipeline route sllignment from river Damodar to Plant site Bana and the design of pipeline and pumping arrangement required for pumping the required quantity of water. Service Order - 4800001033 dt. 20/11/2008   | Corporate Power Limited                   | 1.35                       | Complete         |
| 61     | Preparation of"Feasibility Reports" for water availability near Tokisud from Damodar river for submission to DVRRC, Maithon, Dhanbad.Work order no. - Nil dt. 24.11.2008   | SKS ISPAT AND POWER LIMITED               | 0.75                       | Complete         |
| 62     | Preparation of "Feasibility Report" for water availibility from Sapahi distributory of Damodar River for submission to Water Resources Department - Jharknahd. Work order no. - Nil dated 24/11/2008                           | S.K.S. Ispat and Power Limited            | 0.60                       | Complete         |
| 63     | Consultancy for Pipeline Survey (River Damodar) Service Order - 4800001033 Dt. 20.11.2008  | Corporate Power Limited                   | 1.35                       | Complete         |
| 64     | Preparation of D.P.R. & Hydrology report (River Damodar)Service Order - 4800001055 Dt. 27.11.2008  | Corporate Power Limited                   | 8.00                       | Complete         |
| 65     | Consutancy for presentation of Chandan, service order - 4800001331 Dt. - 21.02.09  | Jas Infrestructure Cap. Pvt. Ltd.         | 0.50                       | Complete         |

| S. No. | Name of Assignment with Work Order /Agreement   | Name of Department / Sponsoring Authority | Cost of Assignment In Lacs | Present Progress |
|--------|---|---|----------------------------|------------------|
| 66     | Consultancy work for Preparation of FR for determination of water availability from Usri River, Work Order no. - BSIL/GRD/78 dt. 27/02/2009   | Balmukund Sponge & Iron Ltd.              | 1.00                       | Complete         |
| 67     | Consultancy services for water feasibility study( in Baitarni river near village Behrampur Padampur, Po. - Jagganathpur, Diat. - West Singhbhum), EMIL/STEEL/2009-10/01, dt. - 03.06.2009   | Essel Mining and Power Ltd.               | 0.80                       | Complete         |
| 68     | Consultancy for preparation of design,drawing & estimates for drawl of water from Chandan Reservoir Scheme for 2640 MW Power Plant Project at JAS Infrastructure Capital Pvt. Ltd., near Baunsi, Dist. - Banka, Biha.JICPL/2640MW/CIVIL/LOI/04/09-10, dt - 09.06.09   | Jas Infrastructure Capital Pvt. Ltd.      | 13.00                      | Complete         |
| 69     | Consultancy work for preparing of Hydrological feasibility report for withdrawl of 250m <sup>3</sup> /hr of water from Sanjay river for developing 1.0 MTPA integrated Steel plant, JSL/WO/06/09-10,dt. - 08.07.09  | Jagannathpur Steel Ltd.                   | 0.30                       | Complete         |
| 70     | Consultancy work for preparation of Hydrological Study Report and assistance in obtaining in Principle Allocation of water from Govt. of Jharkhand for an 1.2 Mtpy Integrated Steel Plant along with 100 MW Captive Power Plant in Jharkhand at Badabambo in Serikela - Kharswan district of Jharkand, Work Order - SGL/RANCHI/NOV/02 dt. 16/11/2009. | Sesa Goa Limited                          | 0.75                       | Complete         |
| 71     | Consultancy work for preparing of design & drawing for water drawl system from Sanjay River for 2.5 MTPA Steel Plant Project at Corporate Ispat Alloys Ltd., Dist - Saraikela - Kharsawan, Jharkhand Work Order no. - CIAL/Water/112 dt. 22/12/2009   | Corporate Ispat Alloys Ltd.               | 4.99                       | Complete         |
| 72     | Work order to prepare the water feasibility report for the site selected for an Integrated Steel Plant Project.   | V. M. Salgaokar & Bro. Pvt. Ltd.          | 0.72                       | Complete         |
| 73     | Consultancy work for preparation of Feasibility & Detailed Hydrology Report for 1320 MW Thermal Power Plant, Work Order - APL/10-11/217, dt. - 14.05.2010.  | Arissan Power Limited                     | 1.00                       | Complete         |
| 74     | Consultancy work for preparation of Hydrological report for the 80 MCM water availability for river Mohana, Service Order - 4800003799, dt. - 17.05.2010.   | Jas Infrastructure Capital Pvt. Ltd.      | 0.40                       | Complete         |
| 75     | Consultancy work for preparation of Dhanarjay Dam Water Report, Service Order - 4800003814, dt. - 18.05.2010.   | Jas Infrastructure Capital Pvt. Ltd.      | 1.00                       | Complete         |
| 76     | Consultancy work for preparation of Feasibility Report & Detail Hydrology Report to make 80 MCM annually available from river Sakri, Service Order - 4800003777, dt. - 13.05.2010.  | Jas Infrastructure Capital Pvt. Ltd.      | 1.00                       | Complete         |

| <b>S. No.</b> | <b>Name of Assignment with Work Order /Agreement</b>  | <b>Name of Department / Sponsoring Authority</b> | <b>Cost of Assignment In Lacs</b> | <b>Present Progress</b>  |
|---------------|---|--|-----------------------------------|--------------------------|
| 77            | Consultancy work for Study of Socio Economic Survey of Area, Proposed Power Plant (4 x 660 MW) at Siriya, Dist. - Banka, Bihar, Work Order - JIPCL/LOI/09-10/02, dt. - 09.02.2010.  | Jas Infrastructure Capital Pvt. Ltd.             | 0.30                              | Complete                 |
| 78            | Consultancy work for Design, drawing and estimate of weir and intake well on River Damodar at new location, complete weir structure, Intake well and rising main from intake well to macluskigang - Balumath Pucca road may be carried through guide bunds all within river land. Purchase Order - 4800004454 dt. 17/07/2010  | Corporate Power Limited                          | 3.50                              | Complete                 |
| 79            | Consultancy work for preparation of Hydrological Report for 2000 m3/hrs on River Sanjay for 1 MTPA Integrated Steel Plant and 180 MW in Saraikela Block at Saraikela - Kharsawan District. Service Order - 4800004900 dt. 23/08/2010  | Jagarnathpur Steel Ltd.                          | 1.00                              | Complete                 |
| 80            | Consultancy work for "Carrying out survey and adequate sampling in the proposed Mining Lease Area (202.35 Ha) of ArcelorMittal near Meghahatuburu, West Singhbhum Distric, to determine increase in silt load of streams passing out from ML area due to proposed mining activity & prepare a managemetn plan to arrest the silt, Contract no. - AMIL/RNC/Mining - August/2010, dt. - 24.08.2010  | ArcelorMittal India Limited, Jharkhand           | 2.10                              | Complete                 |
| 81            | Survey, Investigation, Design, Drawing And estimate of all components of Kanti Reservoir Scheme, Khunti, Jharkhand  | Trivani Construction Pvt. Ltd.                   | 32.00                             | Work Abandoned by Client |
| 82            | Conducting detailed Study & Preparing Design & Cost Estimate of Infiltration Gallary and Intake Well at suitable location in River Subernarekha with 10 MCM (expendable to 20 MCM in future) Water Reservoir on Hindalco land. Conducting Detailed Study & Preparing Design & Cost Estimate of Barrage over River Kanchi along with estimation of pondage (reservoir) provided for the water storage in the river. Conducting Techno - Economic study & Design of water drawl from Chandil Dam reservoir and D/s of Chandil Dam along with its route survey. Work Order - JAP/Water/01 dt. - 24.08.2010 | Hindalco - Jharkhand Aluminium Project           | 13.25                             | Complete                 |
| 83            | Consultancy work for preparation of "Feasibility study for availability of water from river & land acquisition details of village - 'ANN'   | Kondanyashya Power Generation Pvt. Ltd.          | 1.90                              | Work Abandoned by Client |

| S. No. | Name of Assignment with Work Order /Agreement   | Name of Department / Sponsoring Authority | Cost of Assignment In Lacs | Present Progress         |
|--------|---|---|----------------------------|--------------------------|
| 84     | Preparation of Preliminary Hydrological Report to supply around 40 Cusecs of water to your proposed Thermal Power Plant near Raghunathpur in district of Dhanbad (Jharkhand) in between Damodar River and Khudia River near the confluence of Barakar and Damodar River. Work Order no. - BFL/NSC/2 Dt. - 10.11.2010.             | Bharat Forge                              | 2.75                       | Complete                 |
| 85     | Preparation of Preliminary Hydrological Report for withdrawal of 40 MCM of water from kudar River and / or other tributary of Chandan River and store non monsoon requirement in Orhni Dam between FRL & MWL by installing gates in their spillway upto MWL. Work Order no. - APL/NSC/004 Dt. - 13.12.2010.                       | Arissan Power Limited                     | 1.75                       | Complete                 |
| 86     | Consultancy work for preparation of "Feasibility Report & Hydrological Report" for Sirdala, Bihar. Service Order no. - 4800008398 Dt. - 05.03.2011.   | Global Powmin Limited                     | 1.00                       | Complete                 |
| 87     | Consultancy work for preparation of "Hydrological Report for withdrawal of water from Damodar River near confluence of Sapahi River. Service Order no. - 4800008293 Dt. - 26.02.2011.   | Corporate Power Limited                   | 1.00                       | Complete                 |
| 88     | Consultancy work for preparation of "Detail Design and Drawing Intake Well on river Nagarnadia (weir site) to Plant Reservoir. Service Order no. - 4800008749 Dt. - 26.03.2011.   | Corporate Powre Limited                   | 3.50                       | Work Abandoned by Client |
| 89     | Works contract for preparation of a report on time bound De - Silation plan for rivers or rivulets through our Vijay ii Iron Ore Mines in Saranda Forest Division of West Singhbhum. Oder No - M/ 750063/11 dt 10.5.2011  | Usha Martin, Ranchi                       | 2.75                       | Complete                 |
| 90     | Supervision of Intake well ,MCC Room ,Weir in Damoder river at Siram ,Intake well pump house, Mcc Room , Plant reservoir intake Structure at Jobia in plant raw water reservoirs including preparation of construction drawings, and modification / alteration in drawing as per site. Service order no. 4800010491 dt. 21.6.2011 | Corporate Powre Limited                   | 30.00                      | Complete                 |
| 91     | consultancy for Reservoir Survey of chandan Dam for Jipl's - 1 (2x660 MW) Thermal Power Plant at Siriya, Banka, Bihar. Work order no - APL/ Banka/ RS/ 2011- /1080 27.5.2011  | Jas Infrastructure & power Ltd.           | 15.00                      | Complete                 |
| 92     | Desing & drawing of intake well ; Service Order No. - 4800009993 dated 31.05.2011   | Corporate Ispat Alloys Limited.           | 2.40                       | Complete                 |

| S. No. | Name of Assignment with Work Order /Agreement  | Name of Department / Sponsoring Authority | Cost of Assignment In Lacs | Present Progress |
|--------|--|---|----------------------------|------------------|
| 93     | Consultancy Assignment for preparation of feasibility study for drawing raw water from River Damoder/ Khanjo for the proposed 5x660 MW coal based thermal power station of IPCL at Bokro, Jharkhand. Work Oder No. - IPCL/ Water Study / 11/01 Dt- 22.6.2011 | Indian Power Corporation Limited.         | 3.50                       | Complete         |
| 94     | Feasibility study for drawing 170 MCM annually from Mohane Lilajan river for 6000 MW power plant of Reliance Power Plant Jharkhand.. Work oder no- Mes/ 33501449 dt 20.10.2011   | Reliance Power ADA                        | 2.21                       | Complete         |
| 95     | Feasibility study for drawing 170 MCM water annually from South Koel River for 6000MW Meru Power Plant in Jharkhand.Mes/ 33501452 dt - 20.10.2011  | Reliance Power ADA                        | 3.11                       | Complete         |
| 96     | Preparation of Detailed report for design, drawing and estimate for civil work of intake well, gangway and MCC room for Banka project. Service oder no - 48000011998 dt 7.9.2011   | Jas Infrastructure & Power Ltd.           | 0.45                       | Complete         |
| 97     | Consultancy Services for conducting study in regard to Diversion of Sukri River in coal mining area of Tubed Coal Mines Limited; Order no. - TCML/SES&IDP/10/306 dated 31.05.2011  | Tubed Coal Mines Limited                  | 1.40                       | Complete         |
| 98     | Provide Design and estimate for a suitable diversion structure across river Damoder near the under construction intake well cum pump house. Work oder no - 4300001034 dt- 31.05.2011   | Electrosteel Steels Limited.              | 5.63                       | Complete         |
| 99     | Preparation of Detailed report for diversion of Bengadih Nala no. 126 under Burudih Panchyat in Bengadih village at Corporate Ispat Alloys Ltd., Dist- Saraikela - Kharsawana, Jharkhand. Service oder no - 4800011858 dt - 29.08.2011                       | Corporate Ispat Alloys Limited.           | 1.00                       | Complete         |
| 100    | Providing consultancy for Design drawing and estimating of intake well and temporary diversion structure across Izri river for withdrawal of water. Work oder no 4300001335 dt - 02.09.2012  | Electrosteel Steels Limited.              | 1.15                       | Complete         |
| 101    | Preparation of civil design and drawings of Thrust Block for 1200 mm dia 1400 mm dia pipe; Work Order no. - 14/AUX/JI - 3000 dated 28.09.2011  | Lloyd Insulations (India) Ltd.            | 0.33                       | Complete         |
| 102    | Work oder for consultancy service for water withdrawal system for our 1x66 MW thermal power plant. Ref no:- HO/WO/PWP/CS/ NCPL/ 001 dt 12.03.2012  | Kohinoor Power (P) Limited.               | 1.25                       | Complete         |
| 103    | Preparation of Feasibility report for availability & drawl of 85 KL/ day water from Koina river near village Kumdi, P.S. - KIRIBURU, TALUK - Noamundi, Dist:- West Singhbhum, Jharkhand. Ref:- GPC/ KIOM/ WFR/2011-12 DT- 16.03.2012.                        | THE GENERAL PRODUCE CO. LTD.              | 0.50                       | Complete         |

| S. No. | Name of Assignment with Work Order /Agreement   | Name of Department / Sponsoring Authority | Cost of Assignment In Lacs | Present Progress |
|--------|---|---|----------------------------|------------------|
| 104    | Survey of Sanjay river (L - Section of 30 M interval and cross - section at 100M interval from Bridge to 500M U/S of proposed barrage site and C/S at 30M interval from M U/S of barrage site to 500MD/S of barrage site). Service order no - 4800015730 dt - 28.03.2012  | Corporate Ispat Alloys Limited.           | 0.25                       | Complete         |
| 105    | Preparation of proposal regarding Jinjoi Nala Diversion Service order no - 4800017044 dt - 14.06.2012   | Abhijeet Infrastructure Limited           | 0.50                       | Complete         |
| 106    | Preparation of Pre - Feasibility Report, for withdrawal 1500 KL/ per day water from Koina River near Long 85 Deg 18 Min 3Sec & Lat 22Deg 12 Min 45 Sec in West Singhbhum Dist of Jharkhand dt - 11.06.02012   | Electrosteel Casting Limited.             | 1.75                       | Complete         |
| 107    | Total Engineering Consultancy Services as per annexure I & II for preparation of DPR on drawal of 17.97 MCM allocated water from SUNDER RIVER for 2x660 MW captive TPP at Godda. Service order no - 4400002929 dt - 18.07.2012  | Jindal Power Limited. Godda               | 30.00                      | Complete         |
| 108    | Total Engineering Consultancy Services as per annexure I & II for preparation of Feasibility Report (FR) on drawal of water from GUMANI RIVER for 2x660 MW captive TPP at Godda jharkhand. Service order no - 4400002932 dt - 18.07.2012  | Jindal Power Limited. Godda               | 11.00                      | Complete         |
| 109    | Feasibility Report for water availability near Bankura from Damoder River for submission to DVRRC, Maithon, Dhanbad. WO/ IPL/ 0012 - 13 dt - 19.07.2012   | SPS Ispat & Power Limited                 | 1.50                       | Complete         |
| 110    | Preparation of Revised Design, Drawing and Estimate of Intake in 15 meter dia at Siram. Revised Design, Drawing and Estimate of Intake in 15 meter dia at Jobia. Design, Drawing and Estimate of Steel Roofing above Corbel at Siram and Jobia.   | Corporate Power Limited                   | 2.00                       | Complete         |
| 111    | Preparation of Total Diversion Plan of Kewari Nala flowing between Jitpur Coal Block. W.O. No. - JSPL/GP/W.O./26 ; Dated : - 14.12.2012   | Jindal Steel & Power Limited              | 2.50                       | Complete         |
| 112    | Preparation of Hydrological/water availability Survey of the nearby rivers which include Sobha, Karu & Subernarekha river upstream of Chandil Dam and also on downstream of Chandil Dam for the proposed Tiruldih Thermal Power Project (3 x 660 MW). Identification of Proposed location of intake well nearest to site. LOI No. - TPC-TIR/LOI/ENG/SURVEY-1/2013 ; Dated: - 11.02.2013 | Tata Power Company Limited                | 7.86                       | Complete         |



| S. No. | Name of Assignment with Work Order /Agreement  | Name of Department / Sponsoring Authority      | Cost of Assignment In Lacs | Present Progress |
|--------|--|--|----------------------------|------------------|
| 113    | Engineering Service for Canal Diversion. Work Order no. - 4571503034 dated 09.04.2013  | Jindal Steel & Power Limited, Patratu          | 3.00                       | Complete         |
| 114    | Preparation of a report on time bound de - siltation plan for rivers of rivulets passing through your Mines (For Compliance of State - 1 Forest clearance of Lohari Coal Block to obtain the Mining Lease). P.O. No. - UML/KCM/2013/360 dated 31.05.2013   | Usha Martin Limited                            | 2.75                       | Complete         |
| 115    | Consultancy for Drawing and Design of structures in Right Main Canal Ramrekha Reservoir Scheme. Work Order no. - VPIL/2013 dated 13.06.2013  | Vijeta Projects & Infrastructures Ltd.         | 4.00                       | Complete         |
| 116    | Preparation of Feasibility Report (FR) on drawl of water from Jalhara River 2 x 660 MW Godda captive TPP   | Jindal Power Limited, Godda                    | 11.00                      | Complete         |
| 117    | Claculating HFL of Soba and Karu River around our proposed project site at Tiruldih for 3 x 660 MW Tiruldih Thermal Power Project. PO number - 5300124448 dated 20.08.2013.  | Tata Power Company Limited                     | 1.50                       | Complete         |
| 118    | Hydrological Study for Intake Water Syste from Subernarekha River near Galudih Barrage for LD Slag Processing Plant at Galudih - 3800009761/109 dated 19.04.2014   | Tata Steel Limited                             | 13.25                      | Complete         |
| 119    | Command Area Development and Fixsation of Alignment of Integrated Canal and Distribution System in Kahar Barrage Project - LII/ASB/BCJ/NANO - 001 & 002 dated 26.08.2014 & 15.01.2015  | Lahmeyer International (INDIA) Pvt. Ltd.       | 88.20                      | Under Progress   |
| 120    | Preparation of DPR for restoration of Hingua Nala and its pynes in Gaya & Jehanabad Districts - Agreement no. - 1/14-15 by Executive Engineer, Project Investigation and Project Preparation Division Middle Patna dated 22.12.2014  | Water Resources Department, Govt. of Bihar     | 17.95                      | Under Progress   |
| 121    | Preparation of DPR includign survey & Investigation for 03 (Three) nos. Branch Canal and 30 (Thirty) nos. Distributries of Punasi Reservoir Scheme, including design of structures and preparation of land acquisition, soil investigation and classification and command area map etc all complete as per guideline of CWC, New Delhi - Agreement no. - 5F2 / 2014-15 dated 30.03.2015. | Water Resources Department, Govt. of Jharkhand | 74.75                      | Under Progress   |
|        | <b>Total</b>   |  | <b>1,155.15</b>            |                  |