MINUTES OF THE 40TH MEETING OF THE EXPERT APPRAISAL COMMITTEE FOR RIVER VALLEY AND HYDROELECTRIC PROJECTS HELD ON 25TH JANUARY, 2023 FROM 03:30 PM – 05:30 PM THROUGH VIDEO CONFERENCE.

The 40th meeting of the re-constituted EAC for River Valley & Hydroelectric Projects organized by the Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi, was held on 25th January, 2023 through video conference, under the Chairmanship of Dr. K. Gopakumar. The list of Members present in the meeting is at **Annexure**.

Agenda Item No. 40.1

Confirmation of the minutes of 39th EAC meeting held on 28th December, 2022

Agenda Item No. 40.2

Expansion of Krishna Koyna Lift Irrigation Project (CCA 1,09,127 Ha) located at Village Jath, District Sangli and Solapur (Maharashtra) by M/s Department of Irrigation, Government of Maharashtra - Terms of Reference (TOR) - reg.

[Proposal No. IA/MH/RIV/411914/2022; F. No. J-12011/5/2009-IA.I]

40.2.1 The proposal is for grant of Terms of Reference to expansion of Krishna Koyna Lift Irrigation Project (CCA 1,09,127 Ha) located at Village Jath, District Sangli and Solapur (Maharashtra) by M/s Department of Irrigation, Government of Maharashtra.

40.2.2 The details of the project submitted by project proponent and ascertained from the document submitted are mentioned below:

i. Krishna Koyna Lift Irrigation Project comprises of two LIS viz (1) Takari Lift Irrigation Scheme and (2) Mhaisal Lift Irrigation Scheme envisages lifting the water from Krishna River at Takari and Mhaisal for irrigating the draught areas of 1,09,127 Ha of Sangli and Solapur Districts. The existing water utilization for Krishna Koyna Lift Irrigation Project is 26.78 TMC which is available from Krishna River.
ii. Water utilization of the Krishna Koyna Lift Irrigation project is 32.78 TMC and will be available from following sources.

Koyna Dam	19.07 TMC
Warna dam	6.00 TMC
Run-off of the Krishna River during Kharif	7.71
Total	32.78 TMC

iii. Total Land required for KKLI Project in Fourth RPR is 6305.88 Ha. Now after adoption of pipe network policy vide GR Dtd 13.01.2017 and suitable distribution system for micro irrigation in the command project has been revised. Now revised land requirement for the project is 3637.54 Ha. for which 2536.65 ha. land is already acquired. Acquisition procedure of Required balance land is in progress.

iv. Total area of forest required and its status is as below:

Nature of Land involved in (Ha)	Area Existing in Ha	Additional Area Proposed in Ha	Total Area required after expansion in Ha
Forest Land	12.83	2.5	15.33

v. The Ministry has earlier granted environmental clearance as under: -

a) Proposal No. IA/MH/RIV/23628/1989 F. No. J-12011/2/89-IA dated 01.06.1989.
b) Proposal No. IA/MH/RIV/10053/2009 F. No. J-12011/5/2009-IA-I dated 01.7.2009.

vi. The Salient features of the project is as under: -

Project details:

Name of the Proposal	Proposed Expansion of Krishna Koyana Lift Irrigation Project Dist. Sangli and Dist. Solapur, Maharashtra [Proposal No. IA/MH/RIV/411914/2022; F. No. J-12011/5/2009-IA.I]
Location (Including coordinates)	Longitude: 74º 30’ (East) Latitude : 16º 50’ (North)
Inter- state issue involved	No
Seismic zone	III

Category details:

Category of the project	A
Provisions	Irrigation to draught prone area Sangli district
Capacity / Cultural command area (CCA)	Krishna Koyna Lift Irrigation Project

Scheme	**ICA in Ha**	**CCA in Ha**	**GCA in Ha**	**Remark**
Takari LIS	27,430	44358	52128	Existing EC
Mhaisal LIS	81,697	138745	154896	Existing EC
Mhaisal Extended Jath LIS	26,500	88333	103921	Proposed Expansion
Total	**1,35,627**	**271436**	**310945**	

Attracts the General Conditions (Yes/No)	Yes, interstate boundary adjacent to the command area
Additional information (if any)	

Electricity generation capacity:

Powerhouse Installed Capacity	Solar Energy Proposed to Install : 200 MW

Generation of Electricity Annually	200 MW
No. of Units	1
Additional information (if any)	Total electricity requirement will be 138.75 MW however, we are installing solar project having capacity 200 MW

ToR Details:

<table>
<tr><td>Cost of project</td><td>Existing Project: Rs. 6393.19
Proposed Expansion: Rs.1879.17
Total Cost: Rs. 8272.36</td></tr>
<tr><td>Total area of Project</td><td>
<table>
<tr><th>Scheme</th><th>ICA in Ha</th><th>CCA in Ha</th><th>GCA in Ha</th><th>Remark</th></tr>
<tr><td>Takari LIS</td><td>27,430</td><td>44358</td><td>52128</td><td>Existing EC</td></tr>
<tr><td>Mhaisal LIS</td><td>81,697</td><td>138745</td><td>154896</td><td>Existing EC</td></tr>
<tr><td>Mhaisal Extended Jath LIS</td><td>26,500</td><td>88333</td><td>103921</td><td>Proposed Expansion</td></tr>
<tr><td>Total</td><td>1,35,627</td><td>271436</td><td>310945</td><td></td></tr>
</table>
</td></tr>
<tr><td>Height of Dam from River Bed (EL)</td><td>NA</td></tr>
<tr><td>Length of Tunnel/Channel</td><td>Length of Proposed Tunnel: 1360 m
Length of new pipeline proposed: 190 m
Length of Distributaries 386 km</td></tr>
<tr><td>Details of Submergence area</td><td>Not Applicable</td></tr>
<tr><td>Types of Waste and quantity of generation during construction/ Operation</td><td>Domestic Waste:
<table>
<tr><th>Name of Waste</th><th>Source</th><th>Qty (TPA)</th></tr>
<tr><td>Dry Waste</td><td>Labour Colony</td><td>0.9</td></tr>
<tr><td>Wet Waste</td><td>Labour Colony</td><td>0.53</td></tr>
</table>
Excavation Waste
<table>
<tr><th>Name of Waste</th><th>Source</th><th>Qty (TPA)</th></tr>
<tr><td>Muck</td><td>Excavation & Tunnel Work</td><td>85872</td></tr>
</table>
</td></tr>
<tr><td>E-Flows for the Project</td><td>NA</td></tr>
<tr><td>Is Projects earlier studies in Cumulative Impact assessment & Carrying Capacity Page 8 of 16 studies (CIA&CC) for River in which project located. If yes, then</td><td>NA</td></tr>
</table>

a) E-flow with TOR /Recommendation by EAC as per CIA&CC study of River Basin. b) If not the E-Flows maintain criteria for sustaining river ecosystem.	

Muck Management Details

No. of proposed disposal area/(type of land/Forest/Pvt. land)	Quantity of muck likely to be generated : 53670 cu.m
Muck Management Plan	Mode of Disposal : Excavated material will be utilised in filling and road work (IP and SR)
Monitoring mechanism for Muck Disposal	Environmental Management Cell (EMC) shall monitor mechanism of muck disposal

Land Area Breakup:

Private land	3604.60 Ha
Government land/Forest Land	17.60+15.34 = 32.94
Submergence area/Reservoir area	NA
Land required for project components	

Nature of Land involved in (Ha)	Area Existing in Ha	Additional Area Proposed in Ha	Total Area required after expansion in Ha
Non-Forest Land	3589.71	32.5	3622.2100
Forest Land	12.83	2.5	15.3300
Total	3602.5400	35.00	3637.5400

Additional information (if any	

Presence of Environmentally Sensitive areas in the study area

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes /No	Details of Certificate/letter/Remarks
Reserve Forest/Protected Forest Land	Yes	

Nature of Land involved in (Ha)	Area Existing in Ha	Additional Area Proposed in Ha	Total Area required after expansion in Ha
Forest Land	12.83	2.5	15.3300

National Park	No	Not within 10 km Radius
Wildlife Sanctuary	No	Not within 10 km Radius

Court case details:

Court Case	NA
Additional information (if any	

Affidavit/Undertaking details:

~~Affidavit~~/Undertaking	Undertaking for no deviation in the information provided for ToR application attached herewith.
Additional information (if any	

Previous EC compliance and necessary approvals

Particulars	**Letter no. and date**
Certified EC compliance report (if applicable)	Shri. Shantidas Mukhopadhyay, Assistant Audit Officer and Shri. G.D. Kengale, Sr. Auditor visited for performance audit of Environment Clearance and Post Clearance Monitoring on 22.02.2016 to 26.02.2016 Report of the same enclosed Applied for certified compliance report to RO, MOEFCC, Nagpur
Status of Stage- I FC	Forest Clearance • Letter No. 8-549/88-FC dated 08.03.1989 for 11.10 ha • Letter No.1368 dated 25.07.2014 for 1.7338 ha
Additional detail (If any)	-
Is FRA (2006) done for FC-I	Yes

Miscellaneous

Particulars	**Details**
Details of consultant	MITCON Consultancy & Engineering Services Ltd. Pune **Certificate No.** NABET/EIA/2124/RA 0229_Rev 02 Valid up to Feb 05, 2024
Project Benefits	❖ With increased land parcels from draught prone area getting irrigated, farmers are shifting from food crops like sorghum, pearl millet and wheat to Cash crops like sugarcane, pulses, grapes, and Pomegranate.

	❖ Provide better consumer experience and improved operational performance with an end-to-end coverage from pump house to water distribution network with minimum water charges cost to farmers. ❖ The drought prone area earlier is transforming to horticulture hub. ❖ Improvement in operational performance and reliability in water supply by futuristic interventions enabled through SCADA interventions qualifying smart utilities and digital utilities ❖ Solarization of Mhaisal LIS to establish a sustainable energy supply solution that decouples irrigation sector from power subsidy burden to Government of Maharashtra. ❖ Generation of Employment - The draught prone area under the jurisdiction of Mhaisal LIS has limited activities for income generation. Construction and operational activities for proposed Solar PV power project will lead to employment generation for local rural population at the site. Also, the local population may be employed in the maintenance of the Solar PV plant
Status of other statutory clearances	**Environmental Clearance** • Letter No. J.-12011/2/89-IA dated June 1, 1989 • Expansion of EC No. J-12011/5/2009-IA.I dated 01.07.2009 **Forest Clearance** • Letter No. 8-549/88-FC dated 08.03.1989 for 11.10 ha • Letter No.1368 dated 25.07.2014 for 1.7338 ha
R&R details	NA
Additional detail (If any)	

40.2.3 The EAC during deliberations noted the following:

The EAC deliberated on the information submitted (Form 1, PFR, kml file, etc.) and as presented in the meeting and observed that the proposal is for grant of Terms of Reference to the project for expansion of Krishna Koyna Lift Irrigation Project (CCA 1,09,127 Ha) located at Village Jath, District Sangli and Solapur (Maharashtra) by M/s Department of Irrigation, Government of Maharashtra.

The project/activity is covered under category 'A' of item 1 (c) 'River Valley projects' of the Schedule to the Environmental Impact Assessment Notification, 2006, as amended and requires appraisal at Central level by the sectoral EAC in the Ministry.

38.3.4 The EAC after detailed deliberation on the information submitted and as presented during the meeting ***recommended*** for grant of Standard ToR for conducting EIA study for expansion of Krishna Koyna Lift Irrigation Project (CCA 1,09,127 Ha) located at Village Jath, District Sangli and Solapur

(Maharashtra) by M/s Department of Irrigation, Government of Maharashtra, under the provisions of EIA Notification, 2006, as amended along with the following additional/specific ToR:

[A] Environmental Management and Biodiversity Conservation:

i. Tentative estimation of muck generation with their disposal sites along with protection.
ii. Cumulative Impact of project on carrying capacity and sustainability of Krishna and Koyna river/ nalahs of catchment area / due to tapping of water for filling reservoir.
iii. Impact zone decided prior to base line data generation and accordingly, sampling location shall be finalized. Baseline data as mentioned in Standard ToR shall be collected for preparation of EIA/ EMP report along with soil characteristics which shall be studied at minimum 10 locations. The ground water level at 10 locations shall be measured in project area in all three seasons.
iv. A study shall be carried out on impact of project activity on the aquatic and terrestrial ecosystem, within project area classifying the impact zones (highly impact/low impact zone) based on seasonal variations and covering the aspects related to impacts on aquatic ecosystem/ primary productivity due to quantity of water to be lifted for power generation and thermal stratification. Accordingly, Environment Management plan shall be prepared.
v. Sampling locations be located to cover villages situated near the reservoir and around boundary of forest area for collection of baseline data and data to be incorporated in EIA/ EMP report.
vi. Details about other projects located on the river basin of river Koyna along with their longitudinal distance between two projects be submitted. In case of more than one project a detailed Cumulative Impact Assessment and Carrying Capacity study covering aspects related to impact of each project on the flow pattern of the rivers and forest and biodiversity shall be conducted through a reputed Government institute having expertise in the area.
vii. Identify the sand mining/ quarrying sites in submergence area and downstream of reservoir.
viii. Source of construction material and its distance from the project site along with detailed transportation plan for construction material in view of the project site location in Western Ghats be submitted.
ix. A detailed reclamation/ restoration plan of quarrying site/sites be incorporated in the EIA/EMP report.
x. Certificate and certified map from Chief Wildlife Warden shall be submitted mentioning that project boundary is located outside the Eco Sensitive Zone (ESZ) and no Wildlife Sanctuary falls within 10 km of Project site.
xi. A detailed wildlife conservation plan for Schedule –I species be prepared duly approved by the Chief Wild Life Warden be submitted.
xii. In case any Wildlife Corridor is located within 10 km radius of the project site a detailed study shall be conducted to assess the impact of project on safe movement of wild animals.
xiii. Reservoir/ River banks protection plan all along the submergence need to be prepared and incorporated in EIA/ EMP.
xiv. Scope of watershed development in the 10 km radius of the project shall be studied in consultation with Govt. institutions/ Indian Council of Agriculture Research (ICAR)and accordingly a detailed Water Shed Development Plan shall be prepared and incorporated in EIA/ EMP report.
xv. MoU for water uses for the project shall be signed and approved by concerned authority.
xvi. Environmental matrix during construction and operational phase needs to be submitted.
xvii. Matrix formulated on the basis of detailed study and field survey of flora and Fauna methodology used shall be mentioned in the EIA report.
xviii. Endemic plant and animal species found in the area concerned shall be provided instead listing entire endemic species found in the State.

xix. Details of Flora and Fauna reported in submergence area, Nos. of tree along with their density and nomenclature required to be cut for reservoir creation and other project component.
xx. Project impact on avi-fauna shall be studied and incorporated in EIA/ EMP report.
xxi. Impact assessment on the fish diversity based on the hydrological alteration at the water drawing sources shall be studied.
xxii. Stage-I Forest Clearance shall be obtained.
xxiii. Cumulative impact assessment study shall be carried out.
xxiv. Study report on impact on River Rejuvenation shall be submitted.

[B] Socio-economic Study

xxv. Declaration by the project proponent by way of affidavit that "No" Inter-state issue/ policies issue is involved with any state in the project. Consent from other state for drawing of water from Narmada River, if required.
xxvi. All the tasks including conducting public hearing shall be done as per the provisions of EIA Notification, 2006 and as amended from time to time. Public hearing issues raised and compliance of the same shall be incorporated in the EIA/ EMP report in the relevant chapter.
xxvii. Statement on the commitments (activity-wise) made during public hearing to facilitate the discussion on the CER in compliance of the Ministry's OM F. No. 22-65/2017-IA.III dated 30th September, 2020 shall be submitted.
xxviii. Tentative no. of project affected families shall be identified and accordingly appropriate Rehabilitation & Resettlement plan shall be prepared.
xxix. Details of settlement in 10 km area shall be submitted.
xxx. Epidemiological Survey shall be conducted in the study area and report be submitted along with EIA/EMP.

[C] Muck Management/ Disaster Management

xxxi. Details of quantity of muck generation component wise and disposal site along with transportation plan and its monitoring to be provided.
xxxii. Details of Muck Management plan prepared along with estimated cost incorporated in EIA/ EMP report.
xxxiii. Techno-economic viability of the project must be recommended from CEA/ CWC

[D] Miscellaneous.

xxxiv. Pre-DPR Chapters viz., Hydrology, Layout Map and Power Potential Studies duly approved by CWC I CEA shall be submitted.
xxxv. Undertaking need to submitted on affidavit that regarding no activities has been yet on the project site and water allocated to this scheme shall not be diverted to other purpose.
xxxvi. Both capital and recurring expenditure under EMP shall be submitted.
xxxvii. The photograph should bear the date, time, latitude & longitude of the monitoring station/ sampling location. In addition to this PP should submit the original test reports and certificates of the labs which will analyse the samples.
xxxviii. Arial view video of project site shall be recorded and to be submitted.
xxxix. The PP has to obtain clearance from inter-state aspect from the designated authorities as per procedure.

Agenda Item No. 40.3

Basania multi-purpose project (CCA 8780 and 100 MW) in an area of 6343.0 Ha Village odhari, Tehsil Ghugari District Mandla (Madhya Pradesh) by M/s Narmada Valley Development Authority Madhya Pradesh – Terms of Reference (TOR) - reg.

[Proposal No. IA/MP/RIV/413201/2023; F. No. J-12011/01/2023-IA.I (R)]

40.3.1 The proposal is for grant of Terms of Reference to expansion of Basania multi-purpose project (CCA 8780 and 100 MW) in an area of 6343.0 Ha Village odhari, Tehsil Ghugari District Mandla (Madhya Pradesh) by M/s Narmada Valley Development Authority Madhya Pradesh.

40.3.1 The details of the project submitted by project proponent and ascertained from the document submitted are mentioned below:

i. Basania dam is proposed over Naramda river, upstream of operational Bargi Dam (which is 120 Km from Basania dam location). The project will provide direct irrigation benefit to a command area of 8780 ha (CCA) and power generation with installed capacity of 100 MW (4x25 MW).
ii. In addition, it will augment water supply through RBMC of Bargi dam, and serve a command of 60,000 ha; out of total command of 245,000 ha planned under Bargi dam.
iii. The Basania Multipurpose project is located in Odhari village of Ghughari Tehsil of Mandla district in Madhya Pradesh on river Narmada.
iv. The project comprises of four main components namely Head works (Dam with Central Spillway & appurtenant works) Pump House, on u/s side of dam, Distribution chamber & pressurized pipe works (RM) and Powerhouse.
v. Length of Composite Dam (including Earthen Dam) is proposed as 1190m including 229.5 m long spillway, maximum height of dam is 84 m.
vi. The project is designed for gross storage of 1786.00 MCM and live storage of 1430.00 MCM.
vii. Pressurized pipe system will be 32.60 km long (RM and GM), connected to distribution network for water supply upto 2.5 ha chak to serve a command of 8780 ha.
viii. The Salient features of the project is as under: -

Project details:

Name of the Proposal	Basania multi-purpose project (CCA 8780 and 100 MW) in an area of 6343.0 Ha Village Odhari, Tehsil Ghugari District Mandla (Madhya Pradesh) by M/s Narmada Valley Development Authority Madhya Pradesh
Location (Including coordinates)	The Basania Multipurpose project is located in Odhari village of Ghughari Tehsil of Mandla district in Madhya Pradesh on river Narmada Latitude: 22°49`43``N Longitude: 80°29`01``E
Inter- state issue involved	No
Seismic zone	Zone II

Category details:

Category of the project	**Cat "A"**
Provisions	
Capacity / Cultural command area	**100 MW plus 8780 ha CCA**

(CCA)	
Attracts the General Conditions (Yes/No)	**No**
Additional information (if any)	**NA**

Electricity generation capacity:

Powerhouse Installed Capacity	**100 MW**
Generation of Electricity Annually	**350 MU (at 40% Plant Load Factor)**
No. of Units	**4 Nos. (4x25 MW)**
Additional information (if any)	**Nil**

ToR Details:

Cost of project	**Rs. 2884.88 Crore**
Total area of Project	**6343 ha**
Height of Dam from Riverbed (EL)	84 m
Length of Tunnel/Channel	250m, Dam toe powerhouse
Details of Submergence area	6343 ha
Types of Waste and quantity of generation during construction/ Operation	As per preliminary study about 25.17 lakh cum of muck constituting 4.62 lakh cum soil and 20.55 lakh cum rock will be generated from excavation out of which about 14.85 lakh cum shall be utilized in project construction and balance 10.32 lakh Cum shall be disposed in muck disposal sites. Detailed Muck Management Plan shall be evaluated during EIA/EMP studies. Construction waste, domestic solid waste from labour camps, etc. quantities will be estimated during EIA study.
E-Flows for the Project	**Will be worked out during EIA study**
Is Projects earlier studies in Cumulative Impact assessment & Carrying Capacity studies (CIA&CC) for River in which project located. If yes, then a) **E-flow with TOR /Recommendation by EAC as per CIA&CC study of River Basin.** If not the E-Flows maintain criteria for sustaining river ecosystem.	No, E-flow will be worked out as per the standard TOR requirement during EIA study.

Muck Management Details:

No. of proposed disposal area/ (type of land- Forest/Pvt. land)	These will be ascertained during the preparation of DPR and EIA study
Muck Management Plan	Will be prepared as part of Environment Management Plan

Monitoring mechanism for Muck Disposal	Will be carried out by Pollution Control Board

Land Area Breakup:

Private land/Non Forest Land	2443 ha
Government land/Forest Land	1893 ha (Government Land)/ 2107 ha (Forest Land)
Submergence area/Reservoir area	6343 ha
Land required for project components	**100 ha**
Additional information (if any)	-

Presence of Environmentally Sensitive areas in the study area

Forest Land/Protected Area/ Environmental Sensitivity Zone	**Yes/No**	**Details of Certificate/letter/Remarks**
Reserve Forest/Protected Forest Land	**Yes**	As per preliminary estimate around 2107 ha of forest land will be diverted for development of Project components, however exact quantum of forest land shall be ascertained by forest dept as a part of forest diversion application under the Forest Conservation Act.
National Park	**No**	**----**
Wildlife Sanctuary	**No**	Proposed Project is located well outside the Protected area and is more than 10 Km area from any nearest protected area. Nearest protected area has been identified as Ghugua Fossil National Park which is at a distance of 32 Km from the proposed dam location and 10.50 Km away from tip of submergence. ESZ of Ghugua NP was notified on 15/09/2017 and all project components including submergence is well outside the ESZ.

Court case details:

Court Case	**NA**
Additional information (if any)	**----**

Affidavit/Undertaking details:

Affidavit/Undertaking	**Undertaking attached**
Additional information (if any)	**----**

Miscellaneous

Particulars	Details
Details of consultant	**RS Envirolink Technologies Pvt. Ltd.** River Valley and Hydroelectric Projects **Certificate No. NABET/EIA/1922/SA 0144** **Extension letter No. QCI/NABET/EIA/ACO/22/2477 dt. August 08, 2022 & Extension letter No. QCI/NABET/EIA/ACO/22/2577 dt. Nov 07, 2022**
Project Benefits	• Basania Multipurpose project is one of the planned projects of NVDA to utilise Madhya Pradesh share of water under NWDT award. • The project will provide direct irrigation benefit to a command area of 8780 ha (CCA) and power generation with installed capacity of 100 MW. • In addition, it will augment water supply through RBMC of Bargi dam and serve a command of 60,000 ha; out of total command of 245,000 ha planned under Bargi dam.
Status of other statutory clearances	Administrative approval has been accorded by Government of Madhya Pradesh vide letter no- F31-09/2020/27-1 Bhopal dated 06.08.2021
R&R details	Based on the preliminary survey for proposed Basania Multipurpose Project, the project prima-facie involve submergence of 2443 ha of private land, out of which 977 ha is irrigated land and 1466 ha is un-irrigated land. 2737 families have been estimated to be affected by the land acquisition for the project. On completion of survey and investigation, exact private land acquisition requirement will be ascertained and list of project affected families will be prepared. Based on the data, R&R Plan will be prepared as per the provisions of Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013 and Madhya Pradesh Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Rules, 2015.
Additional detail (If any)	The Proposed Dam Site is located across river Narmada Near Village Odhari Tehsil Ghugari, District Mandla of Madhya Pradesh. The site is Located at Latitude 22°49`43`` N and Longitude 80°29`01`` E. The site is situated about 30 Km away from Mandla and 17 Km from Mandla Dindori Highway. The Catchment Area upto the Proposed Dam Site is 4836 SqKm Dam is proposed with FRL 527.00 M, having design gross capacity 1786 MCM, Live capacity 1430.0 MCM and Dead storage is 356.0 MCM. After Construction of this Dam, 8780 Ha of Land of Dindori/shahpura Tehsil District of Dindori and Ghugari, Niwas, Mandla Tehsil district of Mandla will be irrigated through pressurized pipe irrigation system.

40.3.3 The EAC during deliberations noted the following:

The EAC in the present meeting (40th meeting) deliberated on the information submitted and as presented in the meeting by the PP and observed that the proposal is for grant of Terms of Reference to the project for conducting EIA study for Basania multi-purpose project (CCA 8780 and 100 MW) in an area of 6343.0 Ha Village Odhari, Tehsil Ghugari District Mandla (Madhya Pradesh) by M/s Narmada Valley Development Authority Madhya Pradesh.

The EAC noted that the project cover area involves around 2107 ha of forest land for establishment of project and its components. No exercise has been done for optimization of forest land as no alternative site analysis was done before submitting the application for TOR. In view of the fact that large chunk of forest land is required for development of project as well as the project cover area is also having tribal population, the EAC suggested to submit the Alternative Site Analysis in terms of ecological aspects viz. loss of Forest ecosystem due to diversion of Forest land/loss of biodiversity and its impacts on productivity of the ecosystem and likely impacts of project on Tribals etc.

*The proposal was **deferred** on the above lines.*

Agenda Item No. 40.4

Additional Agenda item:

Directions of the Hon'ble NGT in the matter of OA No. 212 along with OA No. 148 of 2021 regarding alleged illegal and unauthorized construction of Palamuru Rangareddy Lift Irrigation Scheme (PR LIS) & Dindi Lift Irrigation Scheme (Dindi LIS) – reg

40.4.1 (i) ISSUE:

The Member Secretary informed the EAC that the OA No. 148 of 2021 in the matter of D. Chandramouleswara Reddy and Ors. vs. Union of India and Ors. and OA No. 212 of 2021 in the matter of State of Andhra Pradesh vs. Union of India and Ors. were filed before the Hon'ble National Green Tribunal, (SZ), Chennai account of alleged illegal and unauthorized construction of Palamuru Rangareddy Lift Irrigation Scheme (PR LIS) and Dindi Lift Irrigation Scheme (Dindi LIS).

The main issue is regarding changing the project from drinking water project to irrigation scheme and several other environmental violations that have been committed.

(ii) CONTENTIONS:

(a) With respect to OA No. 148 of 2021, the petitioner has contended that:

- That PR LIS will adversely impact all the existing projects under awards of KWDT I & II and other projects which will affect not only the drinking and irrigation water requirements of the population who depend on these projects in Andhra and Rayalaseema Regions but it will also affect the agricultural economy of the State.
- That PR LIS did not take mandatory clearance and permission under EIA Notification, 2006.
- That there is contemplation to utilize water in excess of its allocation and made an attempt to draw water at 800ft. from the common Srisailam Reservoir which impacts the downstream utilization.
- That the right to life of the applicants would be at stake, if the PR LIS is constructed and start utilization of water without considering socio impact assessment.

- That the construction of the project without any allocation would have catastrophic impact on the downstream projects and even the projects utilizations by KWDT-I & II.

(b) With respect to OA No. 212 of 2021, the petitioner has alleged that:

- The said project is undertaken without securing prior clearances mandated under the Environmental Impact Assessment Notification, 2006.
- The Dindi LIS Project cannot be constructed, since the damage caused to the environment has to be arrested. Further, construction of offline reservoirs involves mining activity and digging activity besides deforestation which causes air, water pollution, noise pollution, soil pollution, land pollution and disturbing wildlife and biodiversity.
- The said project is going ahead without any precautionary measures; the execution would have catastrophic impact on the inhabitants of the lower riparian State.
- The said project cannot be constructed since true environmental impact has not been assessed and it has not been established whether any damage will be caused or if any such damage is caused then how to mitigate the same.
- The project cannot be constructed without any allocation of either KWDT-I or KWDT-II and without the appraisal of the DPR by the 4th respondent and CWC and approval by the Apex Council.
- The project proponent is contemplating to utilize water in excess of its allocation and trying to draw water at 800ft from the common Srisailam Reservoir that will have a serious impact upon the downstream utilization and also dependable flows meant for the Applicant State.

(iii) Directions of the Hon'ble NGT for Compliance by MoEF&CC:

The aforesaid matter was disposed of on 22.12.2022, by the Hon'ble National Green Tribunal (NGT), Southern Bench at Chennai, with the following directions:

"In the above circumstances, we are not in agreement with the argument of the State of Telangana that it is only for the drinking purpose and that it does not attract Environmental Clearance. Without the Environmental Clearance, having completed the construction of at least 90% of the entire project, the State of Telangana has to be assessed for the Environmental Compensation for the mitigation purposes. In the light of the above, the Original Applications are disposed of on the following:

i. The State of Telangana should not proceed with the project without following the procedure for obtaining Environmental Clearance, namely, Screening, Scoping, Public Consultation and Appraisal.

ii. Being a new project, they are directed to submit the project report before the KRMB and get their appraisal done and get the approval/sanction of the Apex Council.

iii. Since, the Tribunal is of the prima-facie view that the component of irrigation is envisaged in the project and the same could not have been proceeded without the prior Environmental Clearance, the project proponent is not entitled to proceed with the project and he is restrained from proceeding with the work without getting the Environmental Clearance.

iv. The project proponent, namely, the State of Telangana shall pay Environmental Compensation of Rs. 528 crores i.e. 1.5% of the total cost of the project (1.5% of project Cost i.e. Rs. 35,200 crores) in respect of PR LIS.

v. Similarly, the State of Telangana shall also pay Environmental Compensation of Rs. 92.85 crores i.e. 1.5% of the total cost of the project (1.5% of project cost i.e. Rs. 6190 crores) in respect of Dindi LIS.

vi. The above amounts of Environmental compensation shall be paid by the concerned project proponent/State of Telangana within three months to the Krishna River Management Board. On such payments, the same shall be utilised for remediation activities in the project site and

for Krishna River Restoration activities under the guidance and supervision of an Oversight Committee comprising of Senior Officers above the rank of Joint Secretary to Government of India from MoEF&CC, Ministry of Jal Shakti, Central Pollution Control Board and Krishna River Management Board. KRMB will be the nodal agency. The aforesaid Committee shall be constituted within one month from the date of the judgement. Plan of Krishna River Restoration covering all the riparian States shall be prepared by involving expert agencies such as NEERI. It is open to the authorities to consult any expert in the fields of river basin development, pollution abatement and riparian vegetation development. The proposed works should be implemented for the entire Krishna River on the lines of 'Namami Gange' programme with flexibility to incorporate new site specific components also. Once the project plan is prepared and approved by the Committee, Ministry of Jal Shakti may entrust execution of the project to KRMB and obtain necessary approvals, if any, from the Central Government in this regard.

vii. As it is reported already that more than 75% of the project is completed without EIA study and Environmental Clearance, the MoEF&CC is directed to constitute a Committee from EAC members having expertise to go into the matter regarding mitigation, restoration and rehabilitation measures.

viii. Both the PR LIS as well as Dindi LIS shall not be continued unless otherwise the required Environmental Clearance and other permissions/clearances/consents are obtained under the relevant laws from the competent authorities.

ix. Let the compliance report be filed by the Oversight Committee within one year.

40.4.2 Observation and recommendation of the EAC in the present meeting (40th meeting)

The EAC noted the Hon'ble NGT has directed Ministry to constitute a Committee from EAC members having expertise to go into the matter regarding mitigation, restoration and rehabilitation measures. It was also noted that the proposal for grant of Environmental Clearance to Palamuru Rangareddy Lift Irrigation Scheme (Phase II: Irrigation) in Districts of Mahbubnagar, Rangareddy & Nalgonda, Telangana by M/s Irrigation and CAD Department, Government of Telangana, was submitted to the Ministry under the provisions of the EIA Notification 2006, as amended. The proposal was considered by the EAC in its 34th meeting held on 14th September, 2022. It was observed by the EAC that the project involves violation of the provisions of the EIA Notification, 2006 and project will be appraised as per the SoP issued vide OM dated 7.07.2021 for consideration of Violation cases under EIA Notification, 2006, as amended. The EAC further co-opted Shri K. Gowarappan, ex-member of the Violation Committee, MoEF&CC for calculating/ revisiting damage cost as per SoP after submission of information on following points: -

i. The project proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the SPCB prior to the grant of EC. The quantum shall be recommended by the EAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the EAC and approval of the regulatory authority.
ii. Assessment of ecological damage with respect to air, water, land and other environmental attributes shall be carried out by the accredited consultant of the PP. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
iii. The PP has to obtain clearance from inter-state aspect from the designated authorities as per procedure.

iv. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation to be done.
v. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.
vi. Socio Economic Study following standard procedures to be included, impacts due to project activities need to be assessed and remedial measures to be proposed based on the Field Study and issues raised during Public Hearing.
vii. As the area is on fluoride affected zone, therefore, provisions should be made to recharge the groundwater through proposed reservoirs to dilute fluoride levels.

The EAC opined that since Shri K. Gowarappan has already been co-opted as Member of the EAC for ecological damage assessment in Palamuru Rangareddy Lift Irrigation scheme, he can be included in the committee being constituted for achieving the work specified by the Hon'ble NGT within the time frame. Accordingly, the EAC nominated the following members as expert members for the said Committee and recommended the Ministry to constitute the said Committee:

i.	Dr. A. Malhotra	:	Chairman
ii.	Shri K Gowarappan	:	Member
iii.	Shri Ashok Kharya	:	Member
iv.	Dr. N. Lakshman	:	Member
v.	Dr. Amiya Sahoo	:	Member
vi.	Dr. J.A. Johnson	:	Member

The meeting ended with vote of thanks to the Chair.

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ANNEXURE

ATTENDANCE LIST

Sr. No.	Name & Address	Role	Attendance
1.	Dr. K. Gopakumar	Chairman	P
2.	Dr. N. Lakshman	Member	P
3.	Dr. A. K. Malhotra	Member	P
4.	Dr. Uday Kumar R. Y.	Member	P
5.	Shri Ashok Kumar Kharya	Representative of CWC	P
6.	Shri Yogendra Pal Singh	Member Secretary	P

APPROVAL OF THE CHAIRMAN

Re: Draft MOM of the 40th EAC (RV&HEP) meeting held on 25.01.2023

From :	kgopa@iisc.ac.in	Mon, Feb 13, 2023 01:44 PM
Subject :	Re: Draft MOM of the 40th EAC (RV&HEP) meeting held on 25.01.2023	
To :	Yogendra Pal Singh <yogendra78@nic.in>, jaj@wii.gov.in, ajitkumarmalhotra463@gmail.com, amiya sahoo <amiya.sahoo@icar.gov.in>, amiya7@gmail.com, Ashok Kumar Kharya <ceenvtmgmt@nic.in>, bijayaketan panigrahi <bijayaketan.panigrahi@gmail.com>, chandrahas deshpande <chandrahas.deshpande@welingkar.org>, dchandrahas@gmail.com, mukesh@iitk.ac.in, lnand@rocketmail.com, kn shenoy <kn.shenoy@manipal.edu>, udaykumarry@yahoo.com, Dr. Vijay Kumar <vijay.kumar66@nic.in>, Sharvan Kumar <krsharvan@nic.in>	
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Dear Sir
I approve it.

With warm regards
Prof. K.Gopakumar, FIEEE, FNAE
DESE, Indian Institute of Science
Bangalore-560012, INDIA