

# **MINING PLAN FOR CARASUR SAND QUARRY FOR RESTORING THE FUNCTIONAL EFFICIENCY OF THE COLEROON RIVER**

Approved under the provisions of the Mines Act, 1952 and the Karnataka Mining Regulation Act, 1974.

**Government of Karnataka - Bangalore**

**IN**

## **LOCATION OF THE QUARRY AND RELATED AREA**

REGION : KARNATAKA  
DISTRICT : CHITRADURGA  
VILLAGE : CARASUR  
TALEUK : BATTALAHALLI  
SUBDIVISION : CHITRADURGA  
STATE : KARNATAKA

**FOR**

## **APPLICANT**

### **THE EXECUTIVE ENGINEER,**

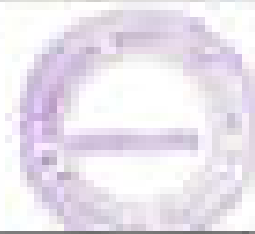
Water Resources Department,  
Mangal Mangaly Taluk,  
Chitradurga District,  
Karnataka - 587101.

## **CONTRACTOR**

### **Dr. M. IYERAN AJMER, M.Sc., Ph.D., D.Sc., F.R.S.,**

Department of Applied Geology,  
Geological Survey of India,  
Bangalore - 560017.  
Dr. M. Iyeran Ajmer,  
Geologist,  
Water Resources - 587101,  
Mangal Mangaly Taluk, Chitradurga District,  
Karnataka - 587101.

The Executive Engineer,  
Water Resources Department,  
Mining and Monitoring Division,  
Mysorepet District,  
Tamil Nadu State - 625 002.



### CONSENT LETTER FROM APPLICANT

The Mining Plan in respect of C.Ambar Sand Quarry for over an extent of 18.00.0 Hectares of Government land in S.P.No. 1180 (P) of Coleroon Block in C.Ambar Village, Kallumangalpet Taluk, Cuddalore District, Tamil Nadu State has been prepared by


**Dr. M. IFTIKHAR AHMED, M.Sc., M.A., Ph.D., Ph.D.,**  
Recognized Qualified Person  
MYP/MSA/180/2004/A

I request the District Collector, Cuddalore District to make further correspondence regarding the modification of the Mining Plan with the said Recognized Qualified Person at the following address.

**Dr. M. IFTIKHAR AHMED, M.Sc., M.A., Ph.D., Ph.D.,**  
No.17, Adambhar Avenue Road,  
Mysorepet, Salem - 625 004.  
Cell: 94422 10001 & 94422 10002

I hereby undertake that all the modifications, if any made in the mining plan by the Recognized Qualified Person shall be deemed to have been made with my knowledge and consent and shall be acceptable to me and binding on me in all respects.

Signature of the Applicant

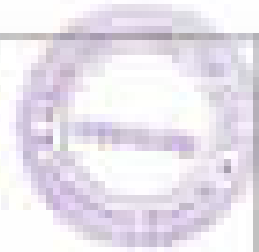
  
Executive Engineer, WRO,  
Mining and Monitoring Division,  
Mysorepet.

Name: Collector

Date:



Dr. M. IYATHARAN ARNEER, M.Sc., M.A.S., F.R.S., Ph.D.,  
No. 17, Adhithan Appalam Road,  
Alappuzha, Kerala-686 004.  
Cell: 98422 78001 & 98422 98079



### **CERTIFICATE FROM THE RECOGNIZED QUALIFIED PERSON**

This is to certify that the provisions of under Rule 12 of Minor Mineral Conservation and Development Rules, 1956 and Rules 41 and 42 as Amended in Tamil Nadu Minor Mineral Concession Rules, 1959 have been observed in the preparation of Mining Plan in respect of C.Angul Sand Quarry for over an extent of 20.000 Hectares of Government land in S.F.No. 11602 (P) of Coleroon River in C.Angul Village, Kattanamandal Taluk, Coleroon District, Tamil Nadu State has been prepared for

**The Executive Engineer,  
State Resources Department,  
Mining and Monitoring Division,  
Viluppuram District,  
Tamil Nadu State - 605 602.**

Whereas specific permissions/ exemptions/ relaxations and approvals are required, the applicant will approach the concerned authorities of the District Collector, Customs District, Tamil Nadu for such permissions/exemptions/relaxations and approvals.

It is also certified that information furnished in the above Mining plan are true and correct to the best of my knowledge.

**Signature of the Recognized Qualified Person**

  
Dr. M. IYATHARAN ARNEER, M.Sc., M.A.S., F.R.S., Ph.D.,  
NO.17/18, ADITHAN APPALAM ROAD

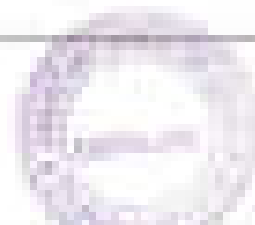
Place: Salem

Date: 29.04.2022

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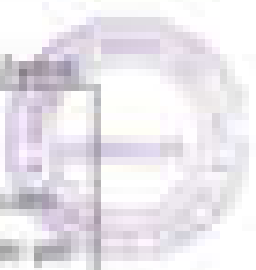


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## Mining Plan for CARARUIS SAND QUARRY,

(Prepared under Rule 14(1) (b) of the Mining (Conservation and Development) Rules, 1988 and by S. An Aravindan of Tamil Nadu, Mining Mining Conservation Rules, 1988, as per Sustainable Sand Mining Management Guidelines 2014 and Enforcement & Monitoring Guidelines for Sand Mining Activities, 2018 issued by MoEF and MoD.)

### INTRODUCTION AND EXECUTIVE SUMMARY

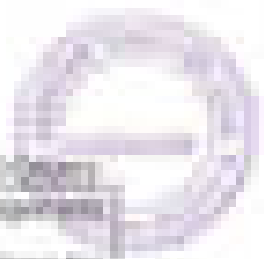
The present Mining Plan and Environmental Management plan is prepared for **The Executive Engineer, Water Resources Department, Mining and Metallurgy Division, Madhavaram District, Tamil Nadu State - 605 002.**

Total extent of the area granted for quarrying of sand is about 18,000 sq.meters (Minimum of Sand of Government land in S.P.No. 11872 (P) of Colonel Street in C. Araruis Village, Kattavombarthi Taluk, Coimbatore District, Tamil Nadu State.

The main aim is to maintain and restore the ecology of the area and other sand sources through sustainable and environment friendly Management practices.

The Mining plan submitted after was reviewed from District Collector, Coimbatore District vide No.No. 175/Minas/2021, Dated: 18.03.2022 for "Maximizing the best functional efficiency/ carrying capacity of the Water bodies" and on date of 22.03.2022 Minister of Government land in S.P.No. 11872 (P) of Colonel Street in C. Araruis Village, Kattavombarthi Taluk, Coimbatore District, Tamil Nadu State is sand Mining Plan for the approved through Department of Mining and Mining, Coimbatore District and other Environmental clearance from the State level Environmental Impact Assessment authority. Total area for a period of one year/ 5,00,000sqm of Sand under Rule 14 of Tamil Nadu Mining Conservation Rules, 1988. As per the above, the Mining Application submitted for quarrying of sand to restore the best functional efficiency/ Carrying capacity of the Colonel Street, hence the mining plan is prepared accordingly.

The Mining activities with the concerned authorities (District Collector, Department of Geology and Mining, Coimbatore District, Executive Engineer, Water Resources Department and other Government officials) after specific determination and inspection the report will be obtained from concerned authorities it is to be reviewed and after completion of the plan, use and regulation to control activities are used the present and after communicating to the Executive Engineer, Water Resources Department advised to prepare the mining plan and other Environmental clearance from the Government of Tamil Nadu for quarrying operations.



The money you had been promised to get the water. And they thought that was fair. The money you had been promised to get the water. And they thought that was fair. The money you had been promised to get the water. And they thought that was fair.

**Objectives:**

- 1. Identification and quantification of energy resources and its optimal utilization.
- 2. To regulate the total energy in the country under its constitution by its best use for the consumers and the general public.
- 3. Use of IT-enabled & smart technologies for conservation of the total energy at each site.
- 4. Reduction in demand & supply gaps.
- 5. Setting up the processes for implementation of each of them.
- 6. Real Environmental Clearance monitoring.
- 7. Processes for Environmental Audit.
- 8. To control the release of illegal energy.

The Government shall constitute a Board and two cells (BET) under the Department of Energy Commission/Ministry of Power/Ministry of Power and other related departments (Energy Policy Office, Energy Transfer Office, Regulator Office (ERRO), State Office of Energy Department, Energy Policy Office) with suitable independent members and an expert government officials/academicians as its advisory members. The BET shall have regular meeting once the energy activities and movements of energy in the country. The BET shall have its regular meeting, preferably every month to provide the information from the energy activity and other operating units during the month and take appropriate decisions and remedial actions, which may include a recommendation for issuing energy audit or environmental clearance. The BET may constitute an independent committee of its experts to assess the environmental or ecological damage caused due to illegal energy and Government release of environmental information from the state's sources. The recommendations may also include other water processes of Environment Department, etc. (2019).

Water State Water Resources Department, Ministry of all kinds of engineering, in the countries of India, Nepal, Bhutan, Myanmar and other nations in the State, Water Resources





Department issues, manages and controls all important systems including the State Statistical System. Including working of the State Statistical System is carried out to improve the National efficiency carrying capacity of the river including the extension capacity of the reservoir. The working was then carried out under in the same area of concern that due to the cost constraints. Therefore, budgetary support for studies and work, the level of the flow of material has increased and covered the carrying capacity.

However, Study and subsequent (designs) carried, it was observed to maintain the National standards the carrying capacity of river. It was never thought of studying the river due to the economic cost. It appears that the problem of water and flood is always the studied area. Consequence of this change in river regime and reduction in carrying capacity of the Channel flow, the stress on the river, along the line of water crossing at lower water and management knowledge, which lead to loss of property and lives.

Instead of the above process to be done the stress on the Channel flow by expanding the process. Alternatively, the government solution to this problem is to quarry the sand to remove the stress. This would result into soil erosion in the wide stretches apart from making available the important construction material for infrastructure development of a township only to the common people.

The quarrying of sand in Government Reservoirs (wells and ponds) have been allowed to private agencies by the revenue Department after conducting a lease agreement with them. This process has to be stopped after period 2008.

As per G.O No. 49 Industries (PWC) Department, dated 22.04.2008, a high level committee had been constituted to conduct a survey of river and river beds in the state with reference to sand quarry. The high level committee concluded that,

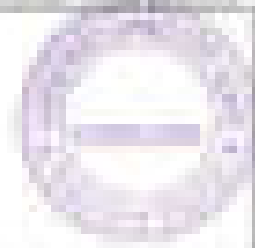
- (a) Even though several rules are being issued from time to time, proper quarrying of sand is not in order. Actually the regulating sand mining is vested with different agencies such as State Ecology and Mining Department, Revenue Department and Water Resources Department. Hence, implementation and monitoring of rules and regulation regarding sand quarrying are not effective. The important task of sand mining therefore, should be entrusted to a SINGLE AGENCY.

The Government issued an order vide No. 49, Industries (PWC) Department, 22.04.2008 to provide lease agreement to Sand Bed in River Bed in River Water Reservoir.



**Short Notice of Mining Plan**

- a. Mine Permitted:  Yes
- b. Proposed mine:  Re-construction
- c. Proposed Reserves:  1,00,000MT of Sand.
- d. The Reserve Reserve:  1,00,000MT of Sand.
- e. The proposed quantity of reserves (level of production) to be mined:  2,00,000MT of Sand for a period of one year.
- f. Total extent of the area:  18.25Ha
- g. Topography of the area:  Irregular topography
- h. Proposed Method of Mining:  One year 1,00,000MT of Sand.
- i. Proposed Depth of Mining:  0m - 11m Above Bed Level.  0m Below Bed Level (Depth)
- j.  All these operations, including mining and related activities within the area.
- k. Method of mining: (level of mechanization)  
 (Manual/mechanized) method of surface mining without drilling and blasting.
- l. Type of machinery used in the process - Mechanized like excavators and trucks are proposed for quarrying of sand.
- m. No trees will be removed due to the quarrying operations.
- n. There is no deposit of sand.
- o. Topo sheets covering a 10km and 10km radius around the proposed area with coverage of buildings, water bodies including streams, rivers, roads, major structure like bridges, wells, environmental clearances, areas of wastage is marked and marked as Map No. 12.
- p. The area applied for lease is about 18.25Ha is bounded by four corners. The corners are demarcated as it is a commercial sector from the Northwest side of the area. Likewise the coordinates are clearly marked in the topography. Topographic Plan and Section (Please refer Page No 12 & 14 & 15).
- q. The layout of proposed mining area showing the dimensions of the pit, its proposed depth of mining, proposed extent of area to be mined and contour is Mark No. 13.
- r. The survey was carried out by Differential Global Positioning System (DGPS) as per the No. No. 101/1999/2014, dated 08.03.2017 issued by Commissioner of Geology and Mining, Tamil Nadu.



- a. The area applied for lease is 10000 acres from the:
  - (i) Industrial Corridor,
  - (ii) Reserved area under the provision of 1972 Act,
  - (iii) Customarily acquired areas as identified by DTCE,
  - (iv) Vacated forest reserved areas.
- b. There is no public anticipated, harm or waste during a proposed work. The lease applied area.
- c. Amount of expenditure are proposed to be incurred by the executing agencies.
- d. The total cost of the project is about Rs. 20,00,000/-.
- e. The following infrastructures are provided by the applied area:

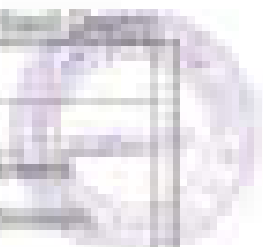
(Table 1)

S. No	Particulars	Location	Direction	Approximate Distance to the
1	Nearby Post Office	Channarayana	SW	100m
2	Nearby School	Channarayana	SW	100m
3	Nearby Dispensary	Channarayana	SW	100m
4	Nearby Town	Channarayana	SW	1000m
5	Nearby Police Station	Channarayana	SW	100m
6	Nearby Hospital	Channarayana	SW	1000m
7	Nearby P. V. P. Office	Channarayana	SW	1000m
8	Nearby Railway Station	Channarayana	SW	1000m
9	Nearby Airport	Maddur	SW	100m
10	Nearby Park	Channarayana	SW	1000m
11	Nearby Road Station	Channarayana	SW	100m

The area applied for lease is a Government land reserved by State Government Department, and is the boundary of forest lands of the state.

The lease area is proposed by converting all the portions reserved for the public and industrial quarrying operations to state to acquire 10000000 of land from over an area of 10000000 of Government land in S. No. 1187/20 (Government land), Channarayana village, Taluk Government 1444, Government District.

Land is a naturally occurring granular mineral composed of loose particles and some cement particles. Some is one of the world's most readily available materials as much as 10% of the world's land is used and from the ability to separate them, some used in that for human welfare and for sustenance of them.



1.0 GENERAL INFORMATION	
1.1	1.1 Name of the applicant <b>The Executive Engineer</b>
1.1	1.2 Address of the applicant (with phone No. and Address) <b>Address: State Revenue Department Money and Marketing Branch Chennai, Tamil Phone No. : 044-2622 4000 and 2622 4001 E-mail ID : <a href="mailto:revenue@tamilnadu.gov.in">revenue@tamilnadu.gov.in</a> (State website No. 1)</b>
1.1	1.3 Nature of the applicant (Individual / Company / Firm) <b>The Applicant is Executive Engineer, in-charge of M&amp;M, Money and Marketing Branch, Chennai, Government of Tamil Nadu.</b>
1.2	1.4 Object through the Applicant intend to carry <b>The applicant intends to carry land levy.</b>
1.2	1.5 Process and communication with details received from the Government <b>The process and communication were received from the District Collector, Collector (land) vide No.No. 173/W/MS/2011, dated 18.01.2011 to carry out land levy plan and to obtain Government Approval from the State level Government Input Assessment Authority, Tamil Nadu (State process No. 1)</b>
1.2	1.6 Period of assessment / dues to be granted <b>One year</b>
1.2	1.7 Name and address of the Applicant / Qualified Person preparing the levy plan <b>Name : Mr. M. Srinivas Kumar, M.Sc., M.B.A., F.R.S., M.A., Recognized Qualified Person. Address : No. 11, Adyarthe Ashram Road, Chennai, Tamil - 600 028. Phone No : 94471-247288 (Office) Cell No : 944 94472 (Home), 94472 94472 E-mail No : <a href="mailto:mskumar123@gmail.com">mskumar123@gmail.com</a> Web site : <a href="http://www.mskumar.com">www.mskumar.com</a> E-mail : <a href="mailto:mskumar123@gmail.com">mskumar123@gmail.com</a> (State website No. 1)</b>







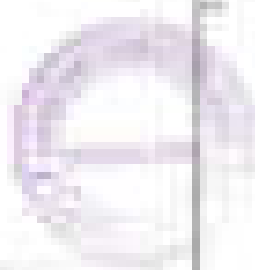


Figure 1. C. rosea field survey



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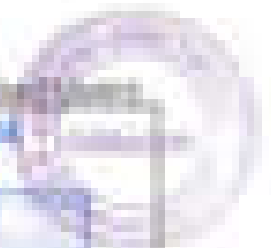
Figure 1. C. rosea field survey

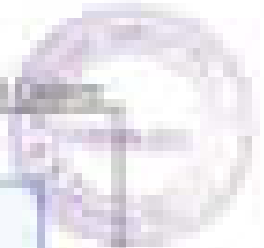


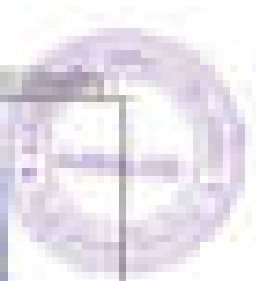
**PART - B**

**RECALL AND EXPLANATION**

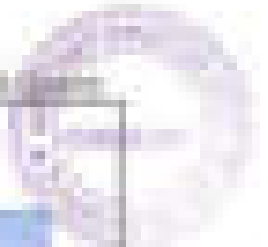
<p><b>Q. 1</b></p> <p>Write description of the topography and general geology and list 4 main features of the terrain. <b>Relating drainage pattern</b></p>	<p>The basin formed over volcanic landscape topography, having gentle slope towards North side. The altitude of the area between 400m to 800m above from MSL and the River bed level is 100m above from MSL. The land is formed by masses of weathered rocks and through erosion and transported by the river water and deposited on the floor of the river by the meanders. Please refer the topography, Geological plan and sections (Page No. 104).</p> <p>The entire area is covered by basalt. The drainage is the Northern tributary of the Gaveru river as it flows through the delta of Madgona. It starts from the west (upstream) of the Gaveru basin at the delta of Madgona and flows eastward through the drainage of Madgona (Madgona and Madgona) to the Gaveru river and the drainage system and confluence with Bay of Bengal.</p> <p>The drainage flow is radial, hence the area covers many streams and the rate of sedimentation is quite high which leads to the collection of carrying capacity resulting in a lot of sedimentation along the banks of the River.</p>
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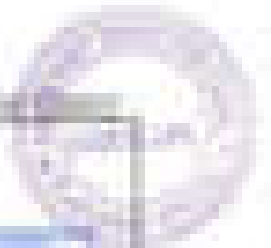








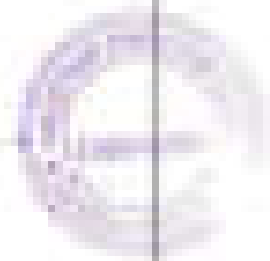






### 3 DIMENSIONAL VIEW AND CONTOUR LEVELS OF CARASUR SAND QUARRY LEASE APPLIED AREA

## 3D MAP IN CARASUR LEASE LEVEL DATA



### 3D MAP IN CARASUR LEASE 1KM

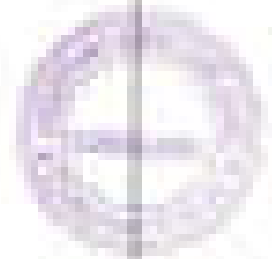
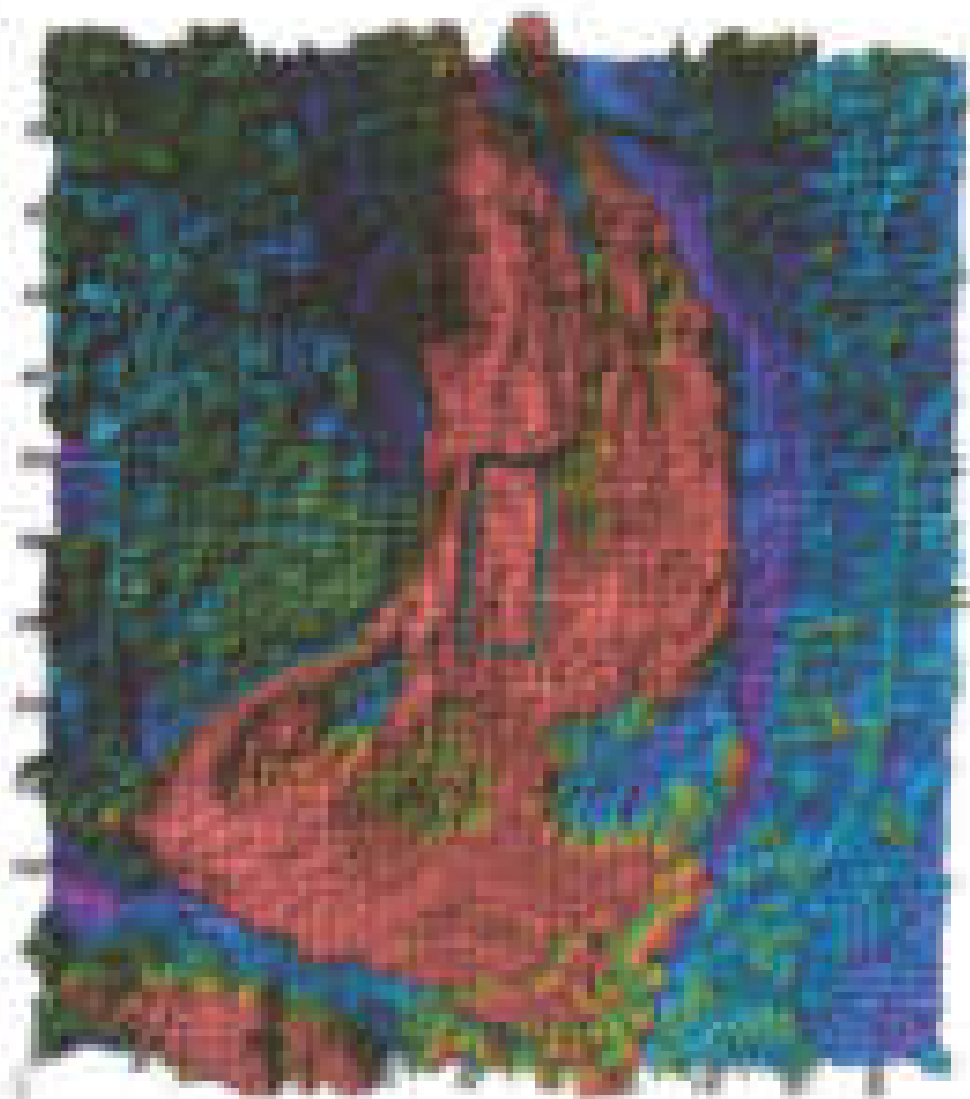
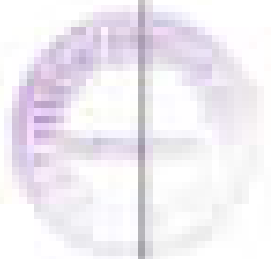
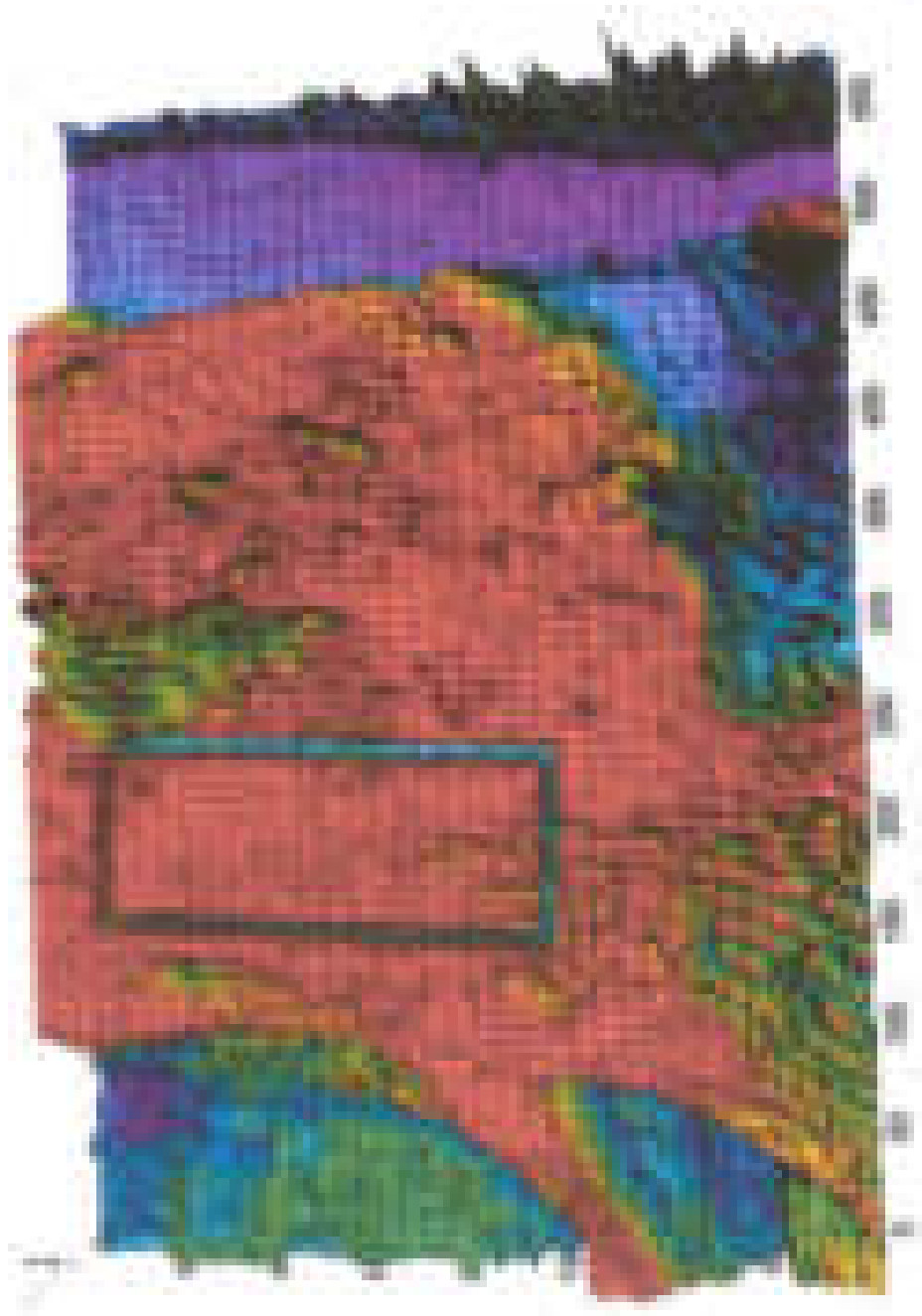


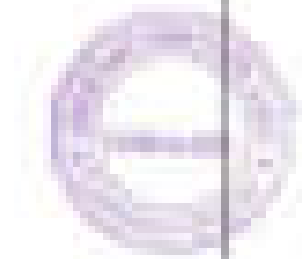
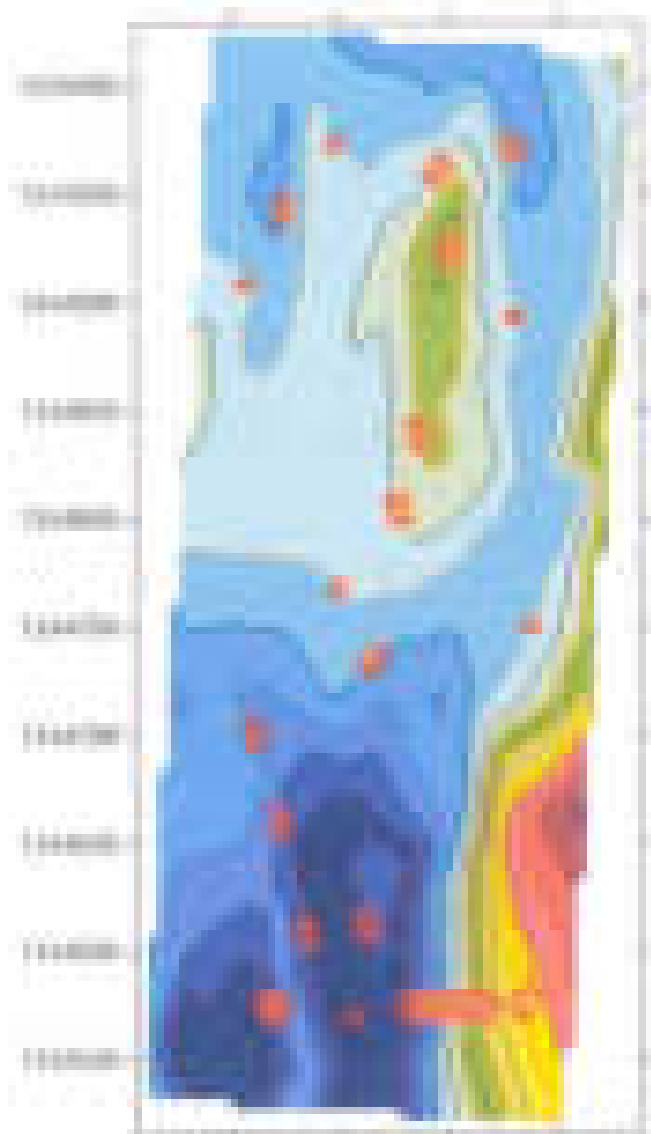
Figure 10

Figure 10

# 3D MAP IN CARASUR LEASE AREA MAP

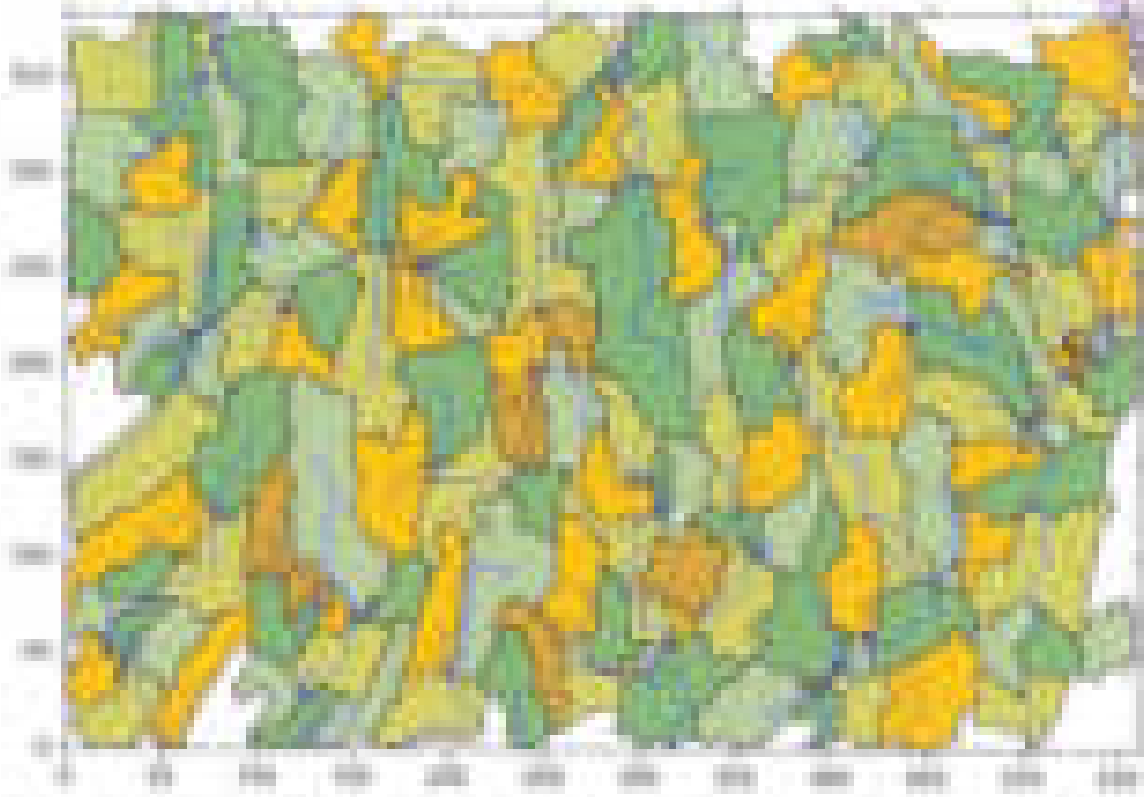


# CONTOUR MAP IN C.ARASUR, LEASE LEVEL DATA

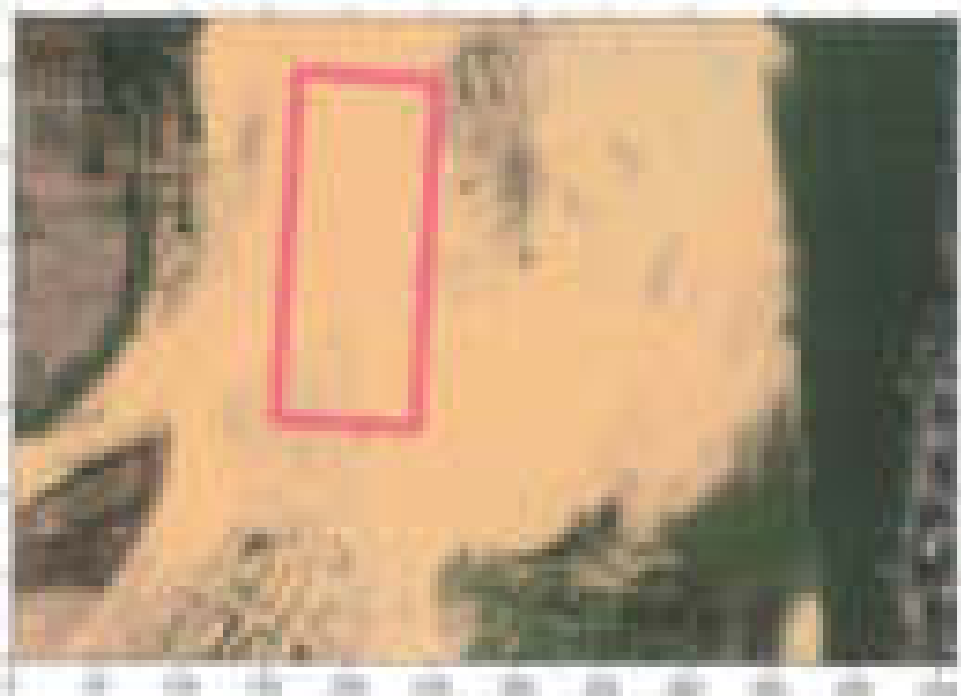


CONTOUR MAP IN C.ARASUR, LEASE LEVEL DATA

**WATERSHED MAP IN CARASUR LEASE AREA**



**GOOGLE MAP IN CARASUR LEASE AREA MAP**



<p>1.1</p>	<p>Volume of excavation already carried out (7 days)</p>	<p>The work reported is clearly visible right from the surface. No detailed measurements are carried out by the Engineer.</p>
<p>1.2</p>	<p>Excavational reserves</p>	<p>The topographical plan of the project area is prepared in 1:10,000 scale (Plate No. 2) with 1m contour interval as the entire area is almost a plain terrain. The Geological plan and sections for every 50m interval with 10m interval of spot level is prepared based on the topographical plan.</p> <p>(The detailed topographical plan along with 1m contour interval is attached as Plate No. 104).</p> <p>The Geological plan delineating the economically viable zone has been prepared in 1:10,000 scale (Plate No. 105). The quantity of the sand to be handled is calculated by length and width of the lease area, which is actually chosen to cover the maximum area.</p> <p>Usually twelve sections have been drawn, one across stream length area of the area (1-1) and other along strike sections are drawn (2-2, 3-3, 4-4, 5-5, 6-6, 7-7, 8-8, 9-9, 10-10, 11-11 and 12-12) width wise of the area to cover the area remaining for project in the area of dimensions 10,000 ft by 10000 ft project area (Plate No. 104 and 105).</p> <p>The cross sectional area for the project depth (consistence of 2m (11m above bed level + 1m below bed level) sand has been worked out for the sections. The cross sectional area multiplied by the length of influence on the longer side gives the volume (cubic) in the cross sectional area. The sum total of the cubic reserves available within the delineated river delineated area gives the Minimum Reserve amount of project area.</p> <p>As the thickness increases of sand is in the bed of the river. The geological thickness, economic reserves are given only in terms of cubic meter.</p> <p>The details of estimation of Geological Reserves and Economic reserves with reference to the Topographic Contour Plan is attached (Plate No. 104 and 105).</p>

g) The Geological Resources with Geological Features are given table below:  
 The total depth of sand below the river level is about 2m.  
 The River level level is 8.5m  
 Total depth of availability of sand is 2m (1m Above river bed and 1m below river bed).  
 The quantity of Resources are given table below.

Maximum depth : 200m

Maximum width : 200m

Average depth : 2m

Table-2

SL. NO.	SECTION NAME	SECTIONAL AREA (W x D) IN m <sup>2</sup>	MEAN AREA IN m <sup>2</sup>	LENGTH IN m	QUANTITY IN m <sup>3</sup>
1	A - B	400.17	110.00	30	33000.0
2	C - D	311.13	110.00	30	33000.0
3	E - F	335.67	110.00	30	33000.0
4	G - H	393.09	110.00	30	33000.0
5	I - J	394.25	110.00	30	33000.0
6	K - L	400.02	110.00	30	33000.0
7	M - N	411.14	110.00	30	33000.0
8	O - P	400.04	110.00	30	33000.0
9	Q - R	414.09	110.00	30	33000.0
10	S - T	420.18	110.00	30	33000.0
11	U - V	427.24	110.00	30	33000.0
<b>Total Proposed Sand Quarry</b>					<b>330000.0</b>
<b>Subtotal</b>					<b>330000.0</b>
<b>Geological Resources</b>					<b>330000.0</b>

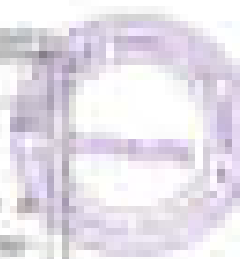
The Geological Resources of sand is 330000m<sup>3</sup>

h) Proposed Resources: There is no sandstone during the quarrying operation.  
 The Mineral Resources are calculated into 2m (The Above sand located in Bed Layer is not Below Bed Layer) (Refer Table No. 11.9 and 11.10).

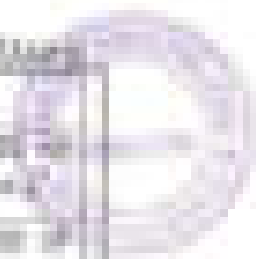




4.0 MINING		
4.1	Method of mining (underground)	<p>Open-pit method of surface mining proposed.</p> <p>Initially to excavate the proposed site a temporary road will be formed by clearing low-vegetation reserves and formed a pit around the road carrying site to reach the mine early. During forming the approach road and pit, necessary temporary dam will be provided wherever necessary for flow flow of water to downstream. After forming of approach roads, the forest lands are allowed for transportation from quarry to Government road. In this process contract works that engineering colleges are engaged for the purpose of maintaining the approach. Regarding the vehicle movements, starting in 1994 trucks having 40 permits etc., to require the quarry operation in a scientific and systematic manner. The road will be located directly to the (Quarry) corner and transport of the material removed road work and for use to nearby customers (road, no mineral processing is needed).</p> <p>The trucks are loaded by contractors in direct supervision of the Assistant / Junior Engineer, Water Resources Department. The competent authority issue licenses and also to employ for the safety movement of vehicles from the quarry.</p> <p>After that the loaded vehicles are allowed to go out only after covering the road bed properly by (Mopac) to prevent any spillage.</p> <p>It is a conventional mechanical quarrying operation.</p>
4.2	Scale of mining (mechanized/ manual)	
4.3	Proposed bench height in meter	20 (Average).
4.4	Process the production / mineral production expected in this as detailed water conservation plan and action planing of road, dump, forest of water etc etc.	There is no coal reserve in waste. The complete year wise production plan are available as attached in Para No. 4.4 and 4.5.







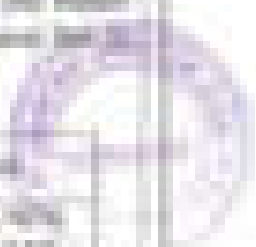
**4.5 Macroeconomic need**

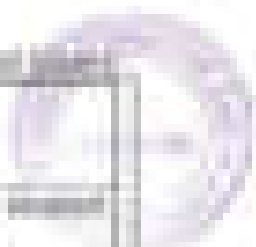
4.5.1 Air quality	Assessment conducted with 10000 LPM flow at 2.5m/s capacity. Good flow (Partic. Matter < 1.5 mg)									
4.5.2 Loading assessment	Assessment conducted with 10000 LPM flow at 2.5m/s capacity. Good flow (Partic. Matter < 1.5 mg)									
4.5.3 Temperature (checked within the zone and noted in assessment)	Good flow. From 20°C to 25°C (average temperature) and equal for site in study (assessment) (Partic. Matter < 1.5 mg)									
4.5.4 Exposure of infrastructure	There is no over burden/loads within the system area. Hence, exposure of infrastructure/water network area									
4.5.5 Soil type or conceptual study plan for the entire area (noted here in the conceptual study and assessment assessment)	<p>Conceptual study plan is prepared based upon topography, infrastructure and services with an object of soil type of assessment development of the soil, location of activity of the site.</p> <p>The ultimate plan is designed based on certain practical parameters such as assessment study of activity &amp; permeability area etc.. The ultimate of assessment of the study are given below.</p> <p style="text-align: center;"><b>Table 1.3</b></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="3" style="text-align: center;"><b>ULTIMATE PFI DIMENSION</b></th> </tr> <tr> <th style="text-align: center;">Maximum length (m)</th> <th style="text-align: center;">Maximum width (m)</th> <th style="text-align: center;">Average depth (m)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">100</td> <td style="text-align: center;">50</td> <td style="text-align: center;">1.5 (1.0 to 2.0)</td> </tr> </tbody> </table> <p>It is a conceptual for study activity operation without drilling and blasting.</p> <p>After completion of study operation the soil will be allowed to return the original capacity of storage of water. The study plan will be implemented during the activity/flow of the system. The site of the study/assessment will be carried out by Water Resources Department, Mining and Geology Division.</p>	<b>ULTIMATE PFI DIMENSION</b>			Maximum length (m)	Maximum width (m)	Average depth (m)	100	50	1.5 (1.0 to 2.0)
<b>ULTIMATE PFI DIMENSION</b>										
Maximum length (m)	Maximum width (m)	Average depth (m)								
100	50	1.5 (1.0 to 2.0)								

**4.6 BLASTING**

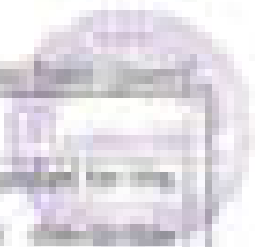
4.6.1 Blasting pattern	It is a conceptual for study activity operation without drilling and blasting.
4.6.2 Type of explosives to be used	It is a conceptual for study activity operation without drilling and blasting.
4.6.3 Blasting pattern to minimize ground vibration due to blasting	It is a conceptual for study activity operation without drilling and blasting.
4.6.4 Storage and safety measures to be taken when blasting	It is a conceptual for study activity operation without drilling and blasting.

<b>8.2 WIRE DRAINAGE</b>													
8.2.1	<p>Depth of water table below an observation point nearby selected water table</p> <p>At the observation point, the water table is estimated to lie in summer and fall very close</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="3">TABLE 4</th> </tr> <tr> <th>Year</th> <th>Estimated Groundwater Level</th> <th>Estimated Water Table</th> </tr> </thead> <tbody> <tr> <td>2000</td> <td>1100' below surface</td> <td>1100' below surface</td> </tr> <tr> <td>2001</td> <td>1100' below surface</td> <td>1100' below surface</td> </tr> </tbody> </table> <p>The proposed depth of watering operation is 120' only. Hence the ground water will not be affected in any manner due to the water operation during the entire life period.</p>	TABLE 4			Year	Estimated Groundwater Level	Estimated Water Table	2000	1100' below surface	1100' below surface	2001	1100' below surface	1100' below surface
TABLE 4													
Year	Estimated Groundwater Level	Estimated Water Table											
2000	1100' below surface	1100' below surface											
2001	1100' below surface	1100' below surface											
8.2.2	<p>Arrangement and design where the steel pipe is fully covered in its discharge</p> <p>There is no such type of problem associated in the quarry operation.</p>												
<b>8.3 STACKING OF MINERAL RESIDUE AND DISPOSAL OF WASTE</b>													
8.3.1	<p>Describe briefly the nature and quantity of tail-sand, overburden, waste and mineral residue likely to be generated during the next five year</p> <p>There is no tail-sand/mineral residue generated during this plan period. The quarried sand (sand 1100') will be directly loaded into trucks and loaded in the nearby approved Government sand stock pile site in nearby townships.</p>												
8.3.2	<p>List design for disposal of waste with proposed justification</p>												
8.3.3	<p>Describe a plan including the nature of disposal and configuration, together all kinds of all sludge along with the proposals for the stacking of tail-sand etc. to be removed per year</p>												
<b>8.4 USE OF THE MINERAL</b>													
8.4.1	<p>Describe briefly the use and use of the mineral (sand for construction, concrete, thermal insulation, glass, industrial use)</p> <p>The quarried sand (sand 1100') will be directly loaded into trucks and loaded in the nearby approved Government sand stock pile site in nearby townships.</p>												
8.4.2	<p>Indicate physical and chemical specifications stipulated by society</p>												
8.4.3	<p>List details in case stacking of different grades of sand is being produced or to be specified of the way to meet specifications required by society</p>												





9.3 Other		
A) Proposed Structures (also shown in the map)		
9.3.1	Remains of Village College	There is no proposed Remains of Village College within 500' radius of the base of the area.
9.3.2	High Bridge/ Falls Club Structure	There is no High Bridge or Falls Club Structure proposed within 500' radius of the area.
9.3.3	Power lines (PDU) (overpass area)	There is no (PDU) line or crossing area proposed within 500' radius of the base of the area.
9.3.4	Water tunnel (Twin, Huron, Lake, etc., Alaskan, etc., etc.)	The proposed area is located at Duwamish River and is not a facility of Duwamish River.
9.3.5	Archaeological / Historical structures	There is no Archaeological / Historical structure located within 500' radius from the base of the area.
9.3.6	Road (SR, SR, Street)	The General Service Highway (SR 52) Continuation - Duwamish Road which is situated about 5.0 km on the Northwest side of the applied area. The State Highway (SR 520) Interchange - Lower Duwamish Road is situated about 5.0 km on the Southern side of the applied area. The High Duwamish Road (SR 520) Street - Interchange Road situated at 2.0 km on the Southern side of the area.
9.3.7	Plant of mining	There is no plant of mining located within the radius of 500' from the base of the area.
9.3.8	Remains of field	There is no Remains of Field located within 500' radius of the applied area.
9.3.9	Remains of structure/ site structure (e.g. NACA / CRS) (e.g. Duwamish Rd.)	There is no site of structure/ site structure (e.g. NACA / CRS) structure located within 500' radius of the applied area.



**52 Employment Proposal & Staffing Measures**

5. Employment proposal (staffing, work schedule, services)

The following employment is proposed for the above mentioned to carry out the identified staffing activities, aimed at the proposed production target and also to comply with the staffing provisions of the Government contract.

A. Requirements and Staffed Personnel		
No.	Designation	No. of Persons
1	Self-Inspection Program	1
2	Technical Services	1
3	Administrative Services	1
4	Specialized Staff	1
5	Other Staff	1
<b>Total</b>		<b>5</b>
B. Available		
1	Available in-house	1
2	Trade	Technician
	Master	1st
	Supervising	1st
3	Specialized Staff	1
4	Trade Handover	1
5	Available (Free Staff)	1
<b>Total</b>		<b>5</b>
<b>Grand Total</b>		<b>10</b>

The above requirement is adequate to meet the production activities and the staffing strength allocated to the contract and to comply with the staffing provisions of the Government contract.

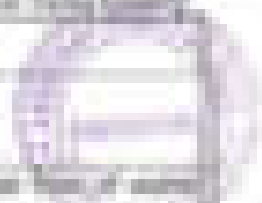
It has been assumed that the contract will not be awarded less than 09 years, as such there will be engaged an experienced for the kind of quarrying operations. All the contract engaged for quarrying operations will be worked during the contract term period.

3.	<p><b>Water treatment</b></p> <p>a) Drinking water</p>	<p>Filtered drinking water will be brought from the water works to the Department which is constructed. Due to the location and of the site, supply of water supply system will be provided to the workers.</p>
	<p>b) Sewage disposal</p>	
	<p>c) Toilet facilities</p>	<p>Toilets and urinals are kept in clean condition, in case of any problem in the toilet will be given first aid immediately at the site by the concerned and statutory health department of MHC will be charge of first aid and report given will be taken to the hospital by the Department's vehicle. Hospital is situated in vicinity located at a distance of 1.5km from the treatment site.</p>
	<p>d) Safety health</p>	<p>In the conventional site strictly enforced safety measures like drilling of blasting will be issued and workers provided, safety health will be affected in any worker however, periodically medical checkup will be conducted for all the workers in regular intervals.</p>
	<p>e) Respiratory safety measures in the site</p>	<p>All the workers employ will be provided with safety harness, knee straps, eye straps, toe straps, knee caps, reflective vests and safety shoes as personal protective device as per the requirement of Code of safe works, workers also conducting periodically medical checkup for all workers for any other health related problems, proper training and induction will be given to workers, provided in detail description of conventional site health safety conditions.</p>

**10.2: WASTE MANAGEMENT**

<p>4)</p>	<p>Waste management / handling of the site of construction is planned to be conducted as per as related to the construction area. Staff monitor the nature of the processing of construction.</p>	<p>The generated waste will be directly loaded into the trucks and transfer to the nearby approved treatment and disposal site to avoid any health concerns, there, there is no manual handling process.</p>
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**PART 2-B**



**2.2.0 ENVIRONMENT MANAGEMENT PLAN**

**2.2.1** Existing Soil Use: It is a forested area, the area covered by the type of soil pattern existing here will have natural water infiltration and storage in soil, the existing ground.

**2.2.2** Water Regime: Existing water is used for both water ground level. The existing is maintained an average depth of 100 cm, water from the existing ground profile of the area, hence the quarry operation will not affect the ground water level.

**2.2.3** Flora and Fauna

**Flora**

**List of Flora**

Sl. No.	Name of the plant (Scientific)	Family Name	Common Name	Height	Picture
1.	Terminalia catappa	Combretaceae	Indian Almond	Tree	
2.	Cordia alliodora	Simarubaceae	Cardinal Tree	Shrub	
3.	Albizia lebbek	Mimosaceae	Silk Tree	Shrub	
4.	Agave americana	Agavaceae	Sisal	Tree	
5.	Clusia grandis	Clusiaceae	Clusia	Shrub	
6.	Artocarpus lacucha	Moraceae	Jackfruit	Tree	
7.	Artocarpus gordonii	Moraceae	Jackfruit	Tree	



ii.	Thymus serpyllifolius	Thymus	Thymus	Yes	
iii.	Hyssopus officinalis	Hyssopus	Hyssopus	Yes	
iv.	Phlomis tuberosa	Phlomis	Phlomis	Yes	
v.	Salvia rosmarinifolia	Salvia	Salvia	Yes	

**List of Fauna**

Sl.No.	Scientific Name	Common Name	Picture
i.	Canis lupus familiaris	Dog	
ii.	Felis tigris	Tiger	
iii.	Danaus plexippus	Monarch Butterfly	
iv.	Apis mellifera	Bee	
v.	Carassius auratus	Fish	
vi.	Struthio camelus	Ostrich	
vii.	Equus caballus	Horse	

**Q.11** Discuss the following statement: "The average annual rainfall in India is 1180 mm, but the average annual rainfall in the world is 985 mm." (2012)

**Ans:** The average annual rainfall in India is 1180 mm, which is higher than the average annual rainfall in the world (985 mm). This is because India has a large area under cultivation and a large population, which requires a lot of water for irrigation and drinking. The average annual rainfall in the world is lower because there are many areas in the world that receive very little rainfall, such as the deserts of Africa and Australia.

<p>11.1</p> <p>Sample effluent</p>		<p>There are two types of effluent which are treated. They are treated by the following methods:</p> <p style="text-align: center;"><b>Table 1</b></p> <table border="1" style="width: 100%;"> <thead> <tr> <th data-bbox="598 347 662 448">Sl. No.</th> <th data-bbox="662 347 901 448">Name of the Effluent</th> <th data-bbox="901 347 1204 448">Approximate Volume in Litres per Day</th> <th data-bbox="1204 347 1396 448">Approximate Treatment</th> </tr> </thead> <tbody> <tr> <td data-bbox="598 448 662 504">1.</td> <td data-bbox="662 448 901 504">Wastewater</td> <td data-bbox="901 448 1204 504">100 - 150</td> <td data-bbox="1204 448 1396 504">100</td> </tr> <tr> <td data-bbox="598 504 662 560">2.</td> <td data-bbox="662 504 901 560">Sewage</td> <td data-bbox="901 504 1204 560">100 - 150</td> <td data-bbox="1204 504 1396 560">100</td> </tr> <tr> <td data-bbox="598 560 662 616">3.</td> <td data-bbox="662 560 901 616">Industrial</td> <td data-bbox="901 560 1204 616">100 - 150</td> <td data-bbox="1204 560 1396 616">100</td> </tr> <tr> <td data-bbox="598 616 662 649">4.</td> <td data-bbox="662 616 901 649">Effluent</td> <td data-bbox="901 616 1204 649">100 - 150</td> <td data-bbox="1204 616 1396 649">100</td> </tr> </tbody> </table>	Sl. No.	Name of the Effluent	Approximate Volume in Litres per Day	Approximate Treatment	1.	Wastewater	100 - 150	100	2.	Sewage	100 - 150	100	3.	Industrial	100 - 150	100	4.	Effluent	100 - 150	100
Sl. No.	Name of the Effluent	Approximate Volume in Litres per Day	Approximate Treatment																			
1.	Wastewater	100 - 150	100																			
2.	Sewage	100 - 150	100																			
3.	Industrial	100 - 150	100																			
4.	Effluent	100 - 150	100																			
<p>11.2</p> <p>Plan for air, noise monitoring</p>		<p>In the conventional air quality monitoring system, the monitoring is carried out by using the following methods:</p> <p>There are two types of air quality monitoring systems. They are:</p> <p>1. <b>Passive Monitoring:</b> This type of monitoring is carried out by using the following methods:</p> <p>2. <b>Active Monitoring:</b> This type of monitoring is carried out by using the following methods:</p>																				
<p>11.3</p> <p>Plan for noise monitoring</p>		<p>The conventional air quality monitoring system does not involve any monitoring and drilling methods. There are two types of air quality monitoring systems. They are:</p> <p>1. <b>Passive Monitoring:</b> This type of monitoring is carried out by using the following methods:</p> <p>2. <b>Active Monitoring:</b> This type of monitoring is carried out by using the following methods:</p>																				
<p>11.4</p> <p>Assessment report assessment method monitoring method of monitoring of the noise and air</p>		<p>The air quality of the area is assessed for the period of one year. The assessment is carried out by using the following methods:</p> <p>1. <b>Passive Monitoring:</b> This type of monitoring is carried out by using the following methods:</p> <p>2. <b>Active Monitoring:</b> This type of monitoring is carried out by using the following methods:</p>																				

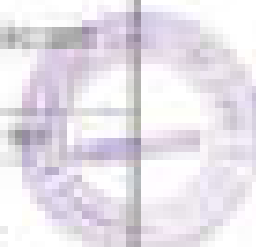


A. Project Description		
1) Land cost	It is a Government land and it is a Public and Government owned project. There are 1000000 sqm of land.	
2) Materials for work	<p>The quantity of 1:2:4 concrete and quantity of 2000/2500 concrete will be used.</p> <p>The quantity of these construction is based on the working level of Government, filling, repair and loading (filling), in the work area quarry project. Excavation are proposed in quarry field.</p> <p>Average level construction of these excavator make 20 100 1000 10000 m.</p> <p>Total number of Excavator used for quarry field is 2 Nos.</p> <p>Average level construction</p> <p>Total work proposed is 1000 1000 = 1000000</p> <p>Level Area = 10000 (10000) square meter</p> <p>Total Excavator working hours for the project</p> <p>Time excavator will consume (hourly rate)</p> <p>= 1000000 / 1000</p> <p>= 1000 excavator hours</p> <p>One Excavator will consume 100000 hours</p> <p>Hours 1000 x 10 = 10,000 hrs of 1000 will be added for the entire project the</p> <p>The total volume change for this volume of these ground is 1000000</p> <p>Total working hours = 10,000 hours</p> <p>= 1,000 hours of Rs 10,000 =</p> <p>Rs 10,00,000 for the entire project the.</p> <p>Excavation cost = <b>Rs 10,00,000</b></p>	Rs 10,00,000
3) Filling / Fencing	There is no proposal for filling or fencing. However, if quarry field and about after completion of quarry operation.	Rs 2,00,000
4) Labour cost	For 1000000 m <sup>3</sup> of work will be implemented in some commercial structure. The cost would be around.	Rs 10,00,000

**Sliding Gate**

**C. Access Road (Contd.)**

<p>(i) Material Supply</p>	<p>Estimated labour and material requirements shall be provided to Governmental authorities prior the cost shall be assessed.</p>	<p>Rs. 20,000/-</p>
<p>(ii) Safety fence</p>	<p>Providing safety fencing.</p>	
<p>(iii) Drinking water Supply for the workers</p>	<p>Provision drinking water will be provided to all workers in Governmental period.</p>	<p>Rs. 10,000/-</p>
<p>(iv) Sanitary arrangement</p>	<p>The labour and worker will bring their own sanitary conveniences.</p>	<p>Rs. 20,000/-</p>
<p>(v) Safety net</p>	<p>All the safety net will be provided, including, Scaffolds, Scaffolding systems, Safety shoes etc., will be provided by the Government prior and the cost shall be assessed.</p>	<p>Rs. 20,000/-</p>
<p><b>Total Cost</b></p>		<p><b>Rs. 80,00,000/-</b></p>
<p><b>PPP Cost</b></p>		
<p>(i) Water sprinkling</p>	<p>Water will be sprinkled in the main roads for water sprinkling.</p>	<p>Rs. 20,00,000/-</p>
<p>(ii) Sewerage etc.</p>	<p>Provisioning in other side of the C.Avenue bridge road and (Sewerage main Road) on the North and South side etc.</p>	<p>Rs. 20,00,000/-</p>
<p><b>Total Project Cost (A+B)</b></p>		<p><b>Rs. 1,00,00,000/-</b></p>
<p><b>PPP :-</b></p> <p>A. Project Cost = Rs. 80,00,000/-</p> <p>B. PPP Cost = Rs. 20,00,000/-</p> <p><b>Total Project Cost (A+B) = Rs. 1,00,00,000/-</b></p> <p>It is a Public and Government funded project. Hence, cost for Corporate Environmental Responsibility (CER) shall not be included in this project. If any activities given by the Government Authority for CER activity, the cost will be implemented by the PPP after obtained the permission from the Government.</p> <p><b>Total cost = Rs. 1,00,00,000/-</b></p> <p>(The Total cost of the project including PPP Cost is Rupees One lakh and eighty three thousand only).</p>		





#### 11.4 Review of Implementation of Mining Plan including Progressive Quarry Plan and the Final Closure Plan

The Mining Plan and Progressive quarry closure are being submitted for the first time. Hence, review of implementation of progressive quarry closure does not exist at present. However, if any work done for progressive quarry closure during the Mining Plan period, it will be discussed during the closure period.

#### 11.5 Closure Plan

##### (i) Final Coal Level

At present the level is floor level, with underlying soil and stones, these are removed and level. The approved coal level will facilitate the formation floor plan of the area as per various B carrying capacity, after completion of quarry operations, the coal level will get naturally re-established during mining early stages.

##### (ii) Water quality management

Following control measures will be adopted for protecting water pollution:

- (a) Control sewage from the portable sanitary water (sanitization) in Quarry (area site provided is discharge to stream)

##### (iii) Air Quality Management

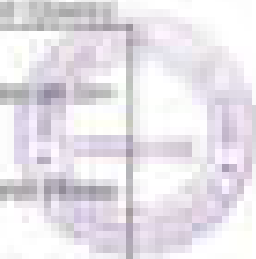
The approved quarrying method is not likely to produce much of dust and fugitive emissions to cause damage to animals or quality of the area. All approved operations approved the dust level, regular traffic will be allowed to the trucks. For air pollution management practical monitoring will be carried out as per the PROVISIONAL A/C/3 terms and will be submitted to competent authority for approval and license.

##### (iv) Top Soil and Waste Management

There is no impact or waste generation during the land quarrying operations. The required final level will be maintained by appropriate approval level will be allowed and the free flow of water will be restored. No generation or removal processing is involved under the quarrying process.

##### (v) Closure of mining machinery

All the Machinery will be disposed or will be scrapped after removal of quarrying plant located at site. The Department does not own any machinery at present. Hence, the disposal of machinery does not arise.



**(vii) Safety & Security:**

Safety measures will be implemented in strict accordance with the provisions of the following period as per Rules Act 1952, 1956, 1958.

- a. Safety measures will be implemented as per Rules Act 1952, 1956, 1958, and Rules 1955.
- b. Provisions of Rule 1952 shall be strictly followed and strict discipline maintained in maintaining every month for smooth operation of vehicles.
- c. Essential equipment like first-aid kit, fire-plug, multi-tool and other equipment shall be provided for use by the working personnel.
- d. Safety gear including eye protection equipment shall be provided and be disposed at all construction sites and at particular high-rise projects. Sufficient number and type of safety gear will be used at and around the vicinity to protect workers from accidents.
- e. Security guards will be posted to prevent unauthorized entry of public.
- f. In the case of emergency cases, the fire department of local police will be alerted to prevent untoward entry of public.

**(viii) Disaster Management and Risk Assessment:**

The project team will submit plan for high risk activities like excavation, shoring, dewatering, etc. Safety measures, safety plan, etc. will be prepared for each excavation, construction activities to be done on. The security of site department is used both construction and the activities to be required from the local authorities as per the following:

- a. The mechanical working activities in the area may involve the high risk activities like usage of heavy earth moving machinery and high capacity cranes.
- b. The complete safety measures will be carried out under the management and control of experienced Executive Engineer, State Security Department, Shriya and Shriyama Group.
- c. Strict provisions of Rules Act 1952, 1956, 1958, and Rules 1955, 1956, 1958, 1959 and other rules applicable to work will be strictly complied with.
- d. Shoring, bracing, etc. and other safety measures will be adequately supported.
- e. All projects in State Security Department jurisdiction will be provided with proper communication facilities.
- f. Competent persons like State Engineer, District Engineer of the department will be provided with 24x7 cell 24x7 which they will always carry during the working operations.
- g. In case of any minor accidents the District Engineer and State Engineer will order to stop work.



**(vii) Care and Maintenance during Temporary Discontinuance**

In case of any temporary discontinuance due to water inflow or due to statutory requirement or any other unforeseen circumstances following measures shall be taken for care, maintenance and monitoring of location:

- a) Status of temporary discontinuance of work or area shall be given to the public as per the local laws.
- b) All the mining machinery shall be shifted to a safe place.
- c) Drains to the mineral part of the mine, if so discontinued, shall properly be kept well kept.
- d) Security guards shall be posted for the safety and to prevent any encroachment on the lease area.
- e) Competent persons shall inspect the area regularly.
- f) All water and other environmental monitoring shall be carried out as per EPA/Ministry & CPCB norms.
- g) Status of the existing and water monitoring for re-opening of the quarry shall be discussed duly.

In case of discontinuance due to any natural calamities/emergency conditions, quarry operations will be resumed as early as possible after completing rescue work, restoring safety and security, repair of roads etc.

**(ix) Seasonal Suspension of Closure of Quarry and temporary Discontinuance**

The quarry lease is granted for a period of one year. In case the production programme is suspended, there will be no effect on the lease period as the majority of persons are to engaged or concerned from the start period of one year.

**(x) Lease Scheduling For Abandonment**

The lease contract area shall proceed for abandonment of operations after the environmental study report will be carried out by the Department on periodical basis. The required period of one month.

**(xi) Abandonment Cost**

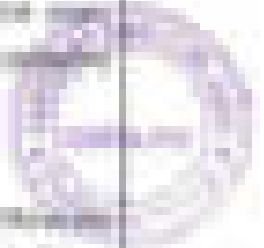
The lease applicant/owner or the contractor shall carry the the abandonment operations that will be carried out the free flow of water in the stream. The temporary work after that period contract will be completed. The cost of such activities will be around Rs. 5,00,000 per lot.

**1.8. ANY OTHER DETAILS INTEND TO FURNISH BY THE APPLICANT**

The proposed site/facility shall carry operation and maintenance during the period of use and during the closure and proceed to back the road for a period of one year after the period of use to prevent any adverse environmental. The entire site shall be returned to the original state.

**STATEMENT PROVIDERS**

The design plan for surveying of land is prepared as per the Road Works Construction and Development Rules, 2012 and also by the National & State Road Transport Commission Rule, 1988. Subordinate Road Works Management Rules, 2012 and Enforcement & Monitoring Rules for Road Works Activity, 2012 issued by MoRRI and I.C. The provisions of the Road Act, Road and Regulations and other laws shall be complied with, so that the safety of the lives, machinery and property are protected. Permission, clearance or approval obtained required by the acts are available. No injury of the land will be suffered from the current activities. The details and other related to the Road Department after careful examination and inspection and it was found to be approved of work in the concerned place. Any violation carried out by the executing authorities will be notified as per the guidelines of the Department.



Approved by

*(Signature)*  
**M. R. Srinivas Kumar, M.Sc., B.E., M.B.A., Ph.D.,**  
Regional Engineer  
KARNATAKA

Date: 18/08/2024  
Ref: 177-04-2024



No. 1273/2022 (M&P), dt. 16.03.2023

Water & Power  
Department



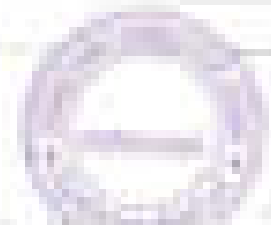
### Basidi Area Communication System

Basidi and Basadi - New 10000 sqm Water  
supply Schem - Kattommanahalli Taluk -  
Kannur & Yings - SP No. 118/2 (P) - cost of  
about of 12000000 Rs. / 10000000 Rs. - supply of  
a new and better - to Public Works Department -  
Common Area and - Project Area Communication  
System.

- 1. Letter No. 117/2022 (M&P) dt. 14.03.2022 from the Executive Engineer (C), Public Works Department, Water Resources Department, Heavy and Highway Group, Mysuru.
- 2. The Project - Estimate - Estimate is No. 117/2022 (M&P) dated 04.03.2022 addressed to the Hon. Minister, Communications and the Executive Engineer, Public Works, Mysuru.
- 3. Report of the Executive Engineer, Public Works, M&P Division, Mysuru letter No. 117/2022 (M&P) dated 14.03.2022.
- 4. Report of the Revenue Department, Communications at Basidi 117/2022 (M&P), dated 28.01.2022.
- 5. Technical Report of the Revenue Department, Heavy and Highway, Mysuru, dated 28.01.2022.
- 6. G.O. No. 19, Mysuru (M&P) dated 28.01.2022.

\*\*\*\*\*

In the above, I am the Executive Engineer (C), Public Works Department, Water Resources Department, Heavy and Highway Group, Mysuru has been proposed for setting up a new water supply in Basidi area and to SP No. 118/2 (P) over an extent of 10000000 Rs. / 100000000 Rs. in K. Basidi & Yings, Kattommanahalli Taluk, Kannur Taluk.



2) The General Director Office, Cambodia, the Mining Director, Planning and Mining, Collection and the Executive Engineer, FIDA-Bank, Cambodia have inspected the project area and recommended for the grant of road quarry permission.

3) Based on the above recommendations of the General Director Office, Cambodia, the Assistant Director (Mining), Cambodia and the Executive Engineer, FIDA-Bank, Cambodia for application for the grant of permission for quarrying sand to a quantity of 200,000 cum or for a period one year or the period within which the quantity allowed is consumed whichever is earlier in S.P.No.28812 (P) cum an extent 60,000 m<sup>2</sup> (net) out of 207,000 m<sup>2</sup> in Village II Village, Kattamoumouk Teuk is considered subject to the production of the following as per Part III B-62 of Land Use/Plan/Forest Condition Map, 1999 amended per S.C.(P)/M/PL, Volume (1992) (Forest land 06.04.2018).

- i. Mining plan
- ii. Environment clearance from the State Level Environment Impact Assessment Authority, Cambodia.

4) In view of the above, the Executive Engineer, FIDA Bank Department, Water Resources Organization, Mining and Metallurgy Director, Cambodia is hereby directed to submit the things mentioned by the Permitted Quarry permit (P.Q.P) to the Assistant Director (Mining) for approval and Environment clearance certificate from the State Level Environment Impact Assessment Authority as stipulated in the FIDA memorandum dated 03.01.2018 and 04.01.2008.

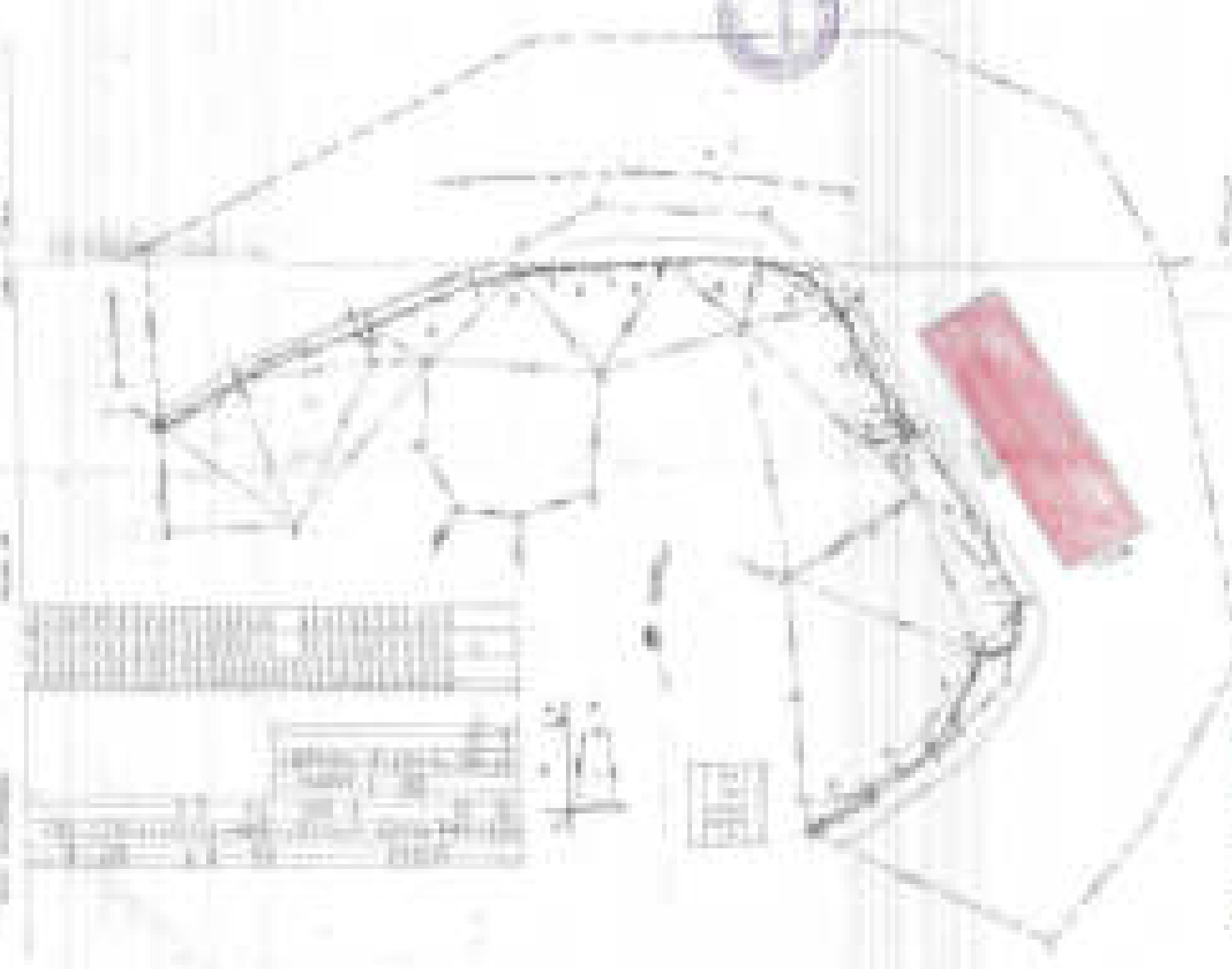
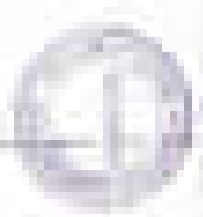
**Minister,  
Ministry of Natural Resources,  
Planning, Collection and Mining**

(Signature)

*(Signature)*  
**For Director Collection,  
Cambodia**

To  
The Executive Engineer,  
FIDA Bank Department,  
Mining and Metallurgy Director,  
Cambodia.

*(Signature)*



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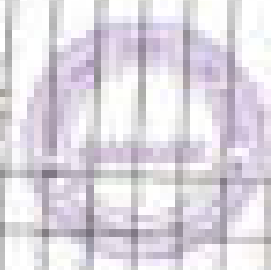


I have been thinking about the future a lot lately. I want to be a doctor when I grow up. I like to help people and I want to learn a lot of things. I am going to study hard in school and get good grades. I want to go to a good university and then to medical school. I will work hard and never give up. I want to be a doctor who can help people and make a difference in the world.

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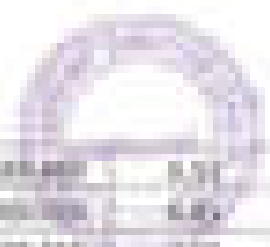
Registered Engineer (P.E.)  
Chicago and Southern Illinois  
Telephone: 432-5000



**Spot Levels with Coordinates of the U.S. Army Land Quarry Lease Applied Area**

The Levels are Presented as 10m Grid Spaced Located at A-B Section on the Southern Side and  
 are Identified by Numbers and (Merit Plate No. 4-A)

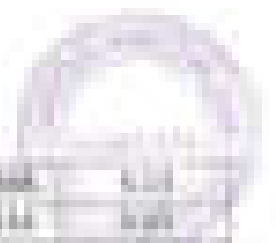
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102	ADARSH K	100000002	B.TE	102	ADARSH K	100000002	B.TE
103	ADITHYAN K	100000003	B.TE	103	ADITHYAN K	100000003	B.TE
104	ADITHYAN K	100000004	B.TE	104	ADITHYAN K	100000004	B.TE
105	ADITHYAN K	100000005	B.TE	105	ADITHYAN K	100000005	B.TE
106	ADITHYAN K	100000006	B.TE	106	ADITHYAN K	100000006	B.TE
107	ADITHYAN K	100000007	B.TE	107	ADITHYAN K	100000007	B.TE
108	ADITHYAN K	100000008	B.TE	108	ADITHYAN K	100000008	B.TE
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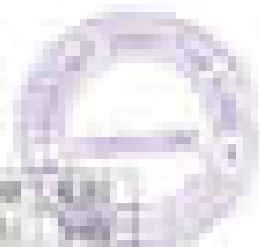


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401











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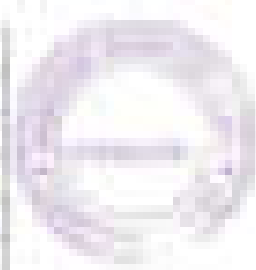


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888	828829 829	1288829 829	8.00	888	828829 829	1288829 829	8.00
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891	828832 832	1288832 832	8.00	891	828832 832	1288832 832	8.00
892	828833 833	1288833 833	8.00	892	828833 833	1288833 833	8.00
893	828834 834	1288834 834	8.00	893	828834 834	1288834 834	8.00
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896	828837 837	1288837 837	8.00	896	828837 837	1288837 837	8.00
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930	828871 871	1288871 871	8.00	930	828871 871	1288871 871	8.00

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901	FL2091.000	1144904.799	5.75	2001	FL2094.000	1144904.799	5.75
902	FL2092.000	1144904.811	5.75	2002	FL2095.000	1144904.811	5.75
903	FL2093.000	1144904.823	5.75	2003	FL2096.000	1144904.823	5.75
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905	FL2095.000	1144904.847	5.75	2005	FL2098.000	1144904.847	5.75
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914	FL2104.000	1144904.955	5.75	2014	FL2107.000	1144904.955	5.75
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916	FL2106.000	1144904.979	5.75	2016	FL2109.000	1144904.979	5.75
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925	FL2115.000	1144905.087	5.75	2025	FL2118.000	1144905.087	5.75
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938	FL2128.000	1144905.243	5.75	2038	FL2131.000	1144905.243	5.75
939	FL2129.000	1144905.255	5.75	2039	FL2132.000	1144905.255	5.75
940	FL2130.000	1144905.267	5.75	2040	FL2133.000	1144905.267	5.75
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944	FL2134.000	1144905.315	5.75	2044	FL2137.000	1144905.315	5.75
945	FL2135.000	1144905.327	5.75	2045	FL2138.000	1144905.327	5.75
946	FL2136.000	1144905.339	5.75	2046	FL2139.000	1144905.339	5.75
947	FL2137.000	1144905.351	5.75	2047	FL2140.000	1144905.351	5.75
948	FL2138.000	1144905.363	5.75	2048	FL2141.000	1144905.363	5.75
949	FL2139.000	1144905.375	5.75	2049	FL2142.000	1144905.375	5.75
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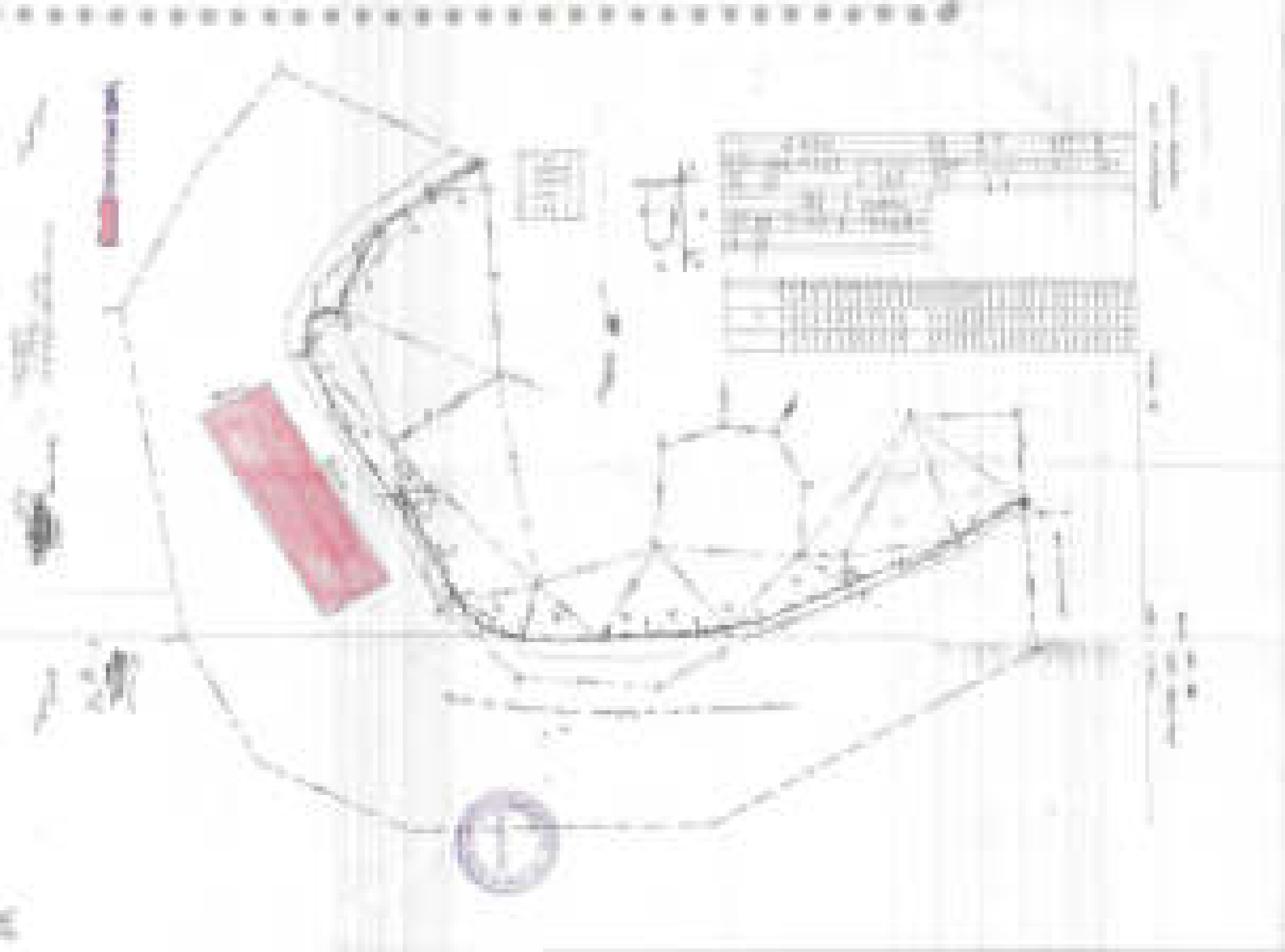


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**Map Scale:**  
 1:50,000  
 1 cm = 500 m

**Map Projection:**  
 UTM  
 Zone 48N  
 Datum: WGS 84  
 Spheroid: GRS 1980  
 Semi-major axis: 6378137 m  
 Semi-minor axis: 6356752.3141453 m

**Legend:**

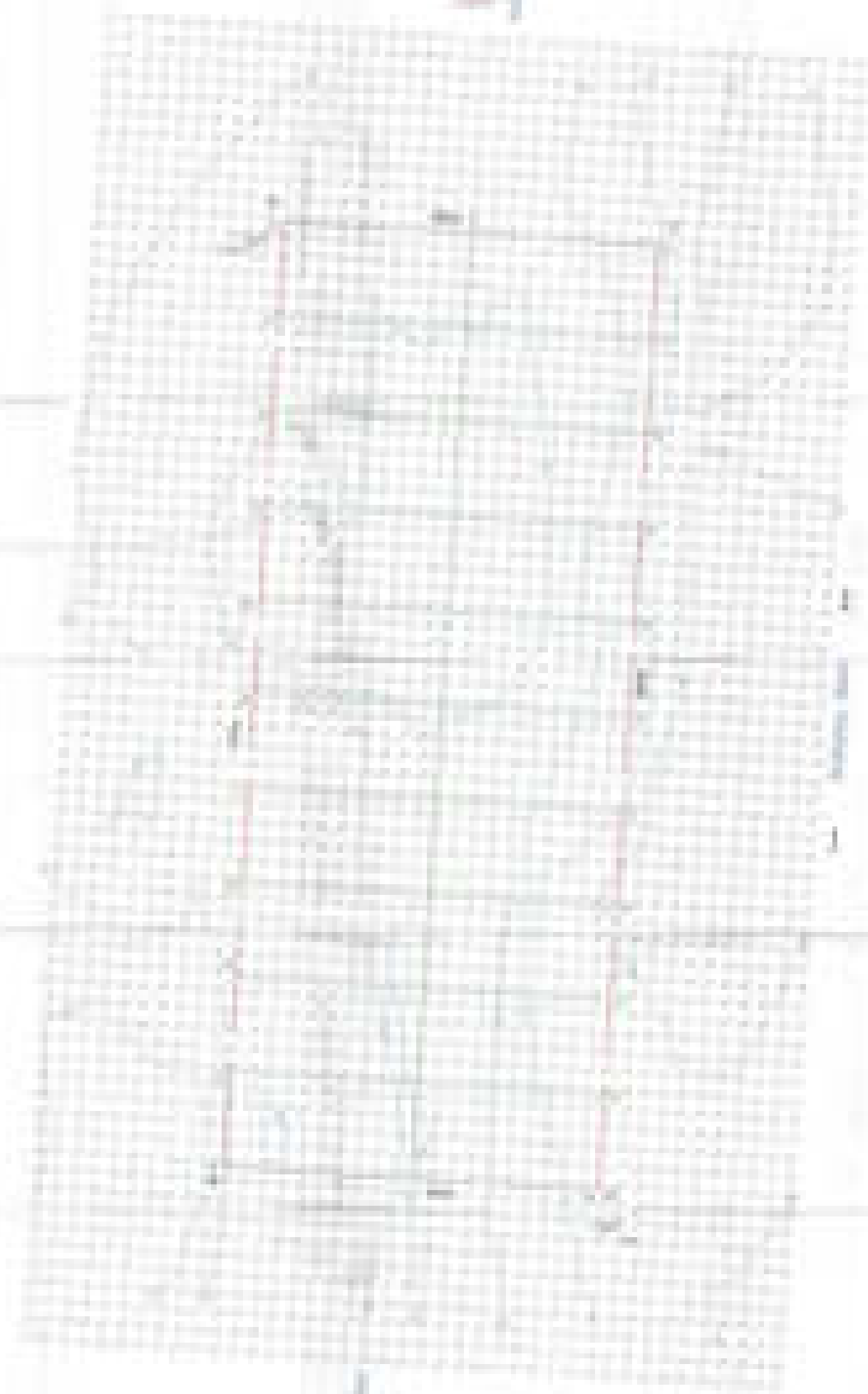
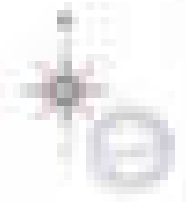
Water	Blue
Forest	Green
Barren	Brown
Urban	Grey

**Map Title:**  
 Environmental Impact Assessment  
 Study Area: 1:1000

**Map Author:**  
 [Name]  
 [Date]







1. The drawing shows a rectangular object with a complex internal structure. The object is oriented vertically on the page. The drawing is a technical drawing on a grid.



