

**Presentation to****State Level Expert Appraisal Committee (SEAC), Tamil Nadu****FOR OBTAINING TERMS OF REFERENCE (ToR) – “B1” Category****Individual Lease > 5 ha****SAND QUARRY****NATURE OF PROJECT****RESTORING THE FUNCTIONAL EFFICENCY OF THE CAUVERY RIVER****LEASE PERIOD – 2 YEARS****NON FOREST LAND/ GOVERNMENT LAND/ MINOR MINERAL / NEW QUARRY**Proposed Production Capacity = **4,80,000 m<sup>3</sup>** of SandProposed Depth = **2m Average (1m above bed level and 1m below bed level)**

<b>PROJECT LOCATION</b>		<b>PROPONENT</b>
Survey No	: 265/1 (PART)	<b>The Executive Engineer,</b> Water Resource Department, Mining and Monitoring Division, Thiruchirappalli District, Tamil Nadu State – 620 020
Extent	: <b>24.00.0 ha</b>	
Village	: Achamapuram	
Taluk	: Manmangalam	
District	: Karur	
State	: Tamil Nadu	

### ▪ OBJECTIVE:

Main objective of the project is maintain and “ **Restore the ecology of the river by restoring the lost functional Efficiency / carrying capacity of the Cauvery River**”

### ▪ STATUTORY APPROVALS :

- Precise area communication letter received from the District Collector Rc.No.392/Mines/2021 Dated 19.01.2022
- Approved mining plan letter Rc.No.392/Mines/2021 Dated 29.04.2022

### ▪ SALIENT FEATURES :

- Total Number of Employees proposed = 38 Nos
- Total Cost of the project = Rs 85,10,000/-
- EMP Cost = Rs 1,50,000/-
- Co ordinates of the boundaries

Corner	Co ordinates (Latitude & Longitude)
1	10 <sup>0</sup> 58' 31.6713"N 78 <sup>0</sup> 10' 48.2644"
2	10 <sup>0</sup> 58' 37.4311"N 78 <sup>0</sup> 10' 53.5951"
3	10 <sup>0</sup> 58' 15.4851"N 78 <sup>0</sup> 11' 17.8825"
4	10 <sup>0</sup> 58' 09.7255"N 78 <sup>0</sup> 11' 12.5517"

## ENVIRONMENTAL SETTINGS

S.No	Description	Particulars	Ariel Distance & Direction
1	Nearest National Highway	NH 81 – Tiruchirapalli - Karur	4.0 kms – South
2	State Highways	SH 74 – Karur – Dindigul	11.0 kms – South
3	Railway Station	Veerarakkiyam	4.0 kms – South West
4	Airport	Thiruchirappalli	60.0 kms – South East
5	Nearest Habitation	720 m –East	
6	Town	Karur	11.0 km – West
7	School	Government Primary School	1.0 m – North West
8	Government Hospital	Karur	11.0 km – West
9	Reserved Forest	<ul style="list-style-type: none"> <li>•Kattalai R.F. – 1.04km – SW</li> <li>•Mayanur R.F. – 4.0km – SE</li> <li>•Nattam R.F. – 5.7km – E</li> </ul>	
10	Defense Installation/Historical Monuments/ Archaeological	Nil within 10km Radius	
11	Nearby Water Bodies	The project area is falls in Cauvery River Canal - 520m - East Amaravathi River 1.3km – South West	

Sl.No	General Conditions	Distance & Direction
1	Interstate Boundary	Around 127 km – SW (Kerala State boundary)
2	Critically Polluted areas identified by the CPCB	Around 130 km – North West (SIDCO-Cluster Industrial Kurichi –Coimbatore)
3	Protected areas Notified under wildlife (Protection) Act,1972	Around 65 km – North West – Vellode Bird Sanctuary

# MAP SHOWING NEAREST PROTECTED AREA



# MAP SHOWING NEAREST RESERVE FOREST



## SALIENT FEATURES OF THE PROJECT

Name of the Quarry	Achamapuram Sand quarry project	
Highest Elevation	102.93m AMSL to 106.89m AMSL	
River Bed level within project site	102.1m AMSL on the upstream 101.1m AMSL on the downstream	
Proposed Depth of Mining	<b>2m average (1m Above river bed and 1m below river bed)</b>	
Proposal for this Mining Plan Period – 2 Years	4,80,000m <sup>3</sup> of Sand	
Method of Mining	Opencast Mechanized Mining Method	
Machinery proposed	Excavator with Bucket & bucket unit for excavation and loading (Rental Basis)	3 Nos
	Tippers (from quarry to nearby approved sand stock yard unit)	15 Nos (Hired Basis)
Proposed Manpower Deployment	38 Nos	
Total Cost	Project Cost	Rs. 85,10,000/-
	Environment Monitoring Cost	Rs. 1,50,000/-
	Total	Rs. 86,60,000/-







# MINING PLAN APPROVAL LETTER




From

Dr. P. Arappal, M.Sc.,  
Deputy Director,  
Geology and Mining,  
Collectorate,  
Karur District.

The Executive Engineer,  
WPD,  
Mining and Monitoring Division,  
Trichy

No. No. 392/Mines/2021, Dated: 29.01.2022

To,

**Sub:** Mines and Minerals - Minor Mineral - Sand quarry - Karur District - Mannangalam Taluk - Achampuram Village - Country River Porambalur Land in S.P.No.265/1(Part) over an extent of 24.00.0 hectares - Application for grant of permission for quarrying sent to the Executive Engineer, Trichy - previous orders communicated - Mining Plan submitted for approval - approved - Regarding

- Ref:**
1. The Executive Engineer, Public Works Department, WPD, Mining and Monitoring Division, Trichy letter No. 23/Agg/1/Sec.23, Dated: 31.08.2021.
  2. Order of the Hon'ble Supreme Court of India in I.A.No. 13-13/2011 in SLP (C) No. 15528-18029/2009, dt: 27.02.2012.
  3. The Chairman, State Level Environment Impact Assessment Authority, Tamil Nadu O.O.No. 28244-TN/Minor Minerals/2012, Dated: 17.09.2012.
  4. The Commissioner of Geology and Mining, Chennai letter No. No. 5864/CG/2012, dt: 19.11.2012.
  5. The District Collector, Karur Probes Area letter No. No. 392/Mines/2021, Dated: 19.01.2022.
  6. Mining Plan submitted by the Executive Engineer, WPD, Mining and Monitoring Division, Trichy letter No. 23/Agg/1/Sec.23/10-04, Dated: 07.04.2022

\*\*\*\*\*

The Executive Engineer, WPD(WRD), Mines and Monitoring Division, Trichy - 20 in the reference 1<sup>st</sup> cited has requested for grant of permission for a new sand quarry, over an extent of 24.00.0 hecto of

Government Porambalur land (Country river) in S.P.No.265/1(Part) in Achampuram Village, Mannangalam Taluk, Karur District.

2. In the reference 6<sup>th</sup> cited, the Executive Engineer, Public Works Department, WPD, Mining and Monitoring Division, Trichy has submitted three copies of Mining Plan, for approval to the proposed sand quarry over an extent of 24.00.0 hecto., of Government Porambalur land (Country River) in S.P.No.265/1(Part) of Achampuram Village, Mannangalam Taluk, Karur District. The Mining Plan has been prepared by Recognised qualified person Thiru. Vithalhar Ahmed, Reg ROP/MAI/183/2004/A. The Mining Plan was prepared as per the guidelines given by Commissioner of Geology and Mining, Chennai - 23, vide reference 4<sup>th</sup> cited. The Mining Plan has been examined and the details of area applied for etc., are as below: -

1	The details of area applied for	S.P.No.265/1(Part) Achampuram Village, Mannangalam Taluk, Karur District	
2	Name of the Panchayat	Achampuram	
3	Topo Sheet No.	88-1/ 05	
4	Boundaries Co-ordinates	Co-Ordinates	
		Latitude	Longitude
1		10°58'31.6713"N	78°11'048.2644"E
2		10°58'37.4311"N	78°11'53.5951"E
3		10°58'18.4851"N	78°11'17.6823"E
4		10°58'09.7355"N	78°11'12.5017"E

The Geological and mineral reserves are detailed in Table -02 and 03 of Part A. The estimated mineable reserves are 4,80,000 cum for two years. The Environmental Management Plan and Mine Closure Plan are detailed in serial Nos. 12 of Part B. It is proposed that the above quantity of sand will be quarried within two-year period using

machineries like excavators and loaders for the proposed sand quarry. There is no Wild Life sanctuary within 10 Km from the project site under Wild Life Protection Act 1972. The Mining Plan has been examined and it satisfies all the conditions stipulated in the rules.

As per the guidelines/ instructions issued by the Commissioner of Geology and Mining, Chennai -32 vide letter No.No.3868/LC/2012, dated 19.11.2012, the Mining Plan is hereby approved subject to the following conditions:

- (i) The mining plan is approved without prejudice to any other Law applicable to the quarry lease from time to time whether such laws are made by the Central Government, State Government or any other authority.
- (ii) This approval of the mining plan does not in any way imply the approval of the Government in terms of any other provisions of the Mines and Minerals (Development and Regulation) Act, 1957, or any other connected laws including Forest (Conservation) Act, 1980, Forest Conservation Rules, 1981, Environment Protection Act, 1986, Explosives Act, 1884 (Central Act IV of 1884) draft Minor Mineral Concession and Development Rules, 2010 and the Rules made there under and the Tamil Nadu Minor Mineral Concession Rules, 1958.
- (iii) The mining plan is approved without prejudice to any other order or direction from any court of competent jurisdiction or Government of India or State Government.
- (iv) Quarrying shall be done as per the approved Mining Plan and that the mining plan is approved without prejudice to any other order/Notification/ law applicable to the quarry lease from time to time whether such laws are made by the Central Government, State Government or any other authority.

- (v) If anything is found to be contravened as required by the Mines Act/MDBP & CC Notifications in the contents of the Mining Plan and the proposed for verification has not been made, the approval shall be deemed to have been withdrawn with immediate effect.
- Encl: Two copies of Approved Mining Plan.

  
Deputy Director,  
Geology and Mining,  
Karur.

Dist. submitted to:

- 1) The Director of Geology and Mining, Chennai-32
- 2) The District Collector, Karur.
- 3) The Chairman, State Level Environmental Impact Assessment Authority, Tamil Nadu, 3rd Floor, Pongal Mandapam, Sakdapat, Chennai-15.



**From:**  
Dr. P. Aravind, M.Sc., Ph.D.,  
Deputy Director,  
Geology and Mining,  
Chennai.  
Karur District.

**To:**  
The Executive Engineer,  
WRD,  
Mining and Monitoring Division,  
Trichy.

**Re: Pn/192/Mines/2021. Dated: 10.08.2021.**

**Sub:** Mines and Minerals - Minor Mineral - Sand quarry - Karur District - Muzumangalam Taluk - Achampuram Village - Quarry River Perambalur Land to S.P.No.265/1(Part) over an extent of 24.00.0 hectare - request for grant of permission for quarrying sand by the Executive Engineer, Public Works Department (PWD) Mining and Monitoring Division, Trichy-20 - Mining Plan submitted and approved - requested for the details of existing/proposed/abandoned quarries situated within 500 mts radial distance - Revealed - Reg.

- Ref:**
1. The Executive Engineer, Public Works Department, WRD, Mining and Monitoring Division, Trichy letter No.24/Agg/1/Min/21, Dated: 31.08.2021.
  2. Proclamation Area Commission Notice No.No.192/Mines/2021, Dated: 19.01.2022.
  3. Mining Plan submitted by the Executive Engineer, WRD, Mining and Monitoring Division, Trichy letter No.24/Agg/1/Min/21/100m, Dated: 07.04.2022.
  4. The Executive Engineer, WRD, Mining and Monitoring Division, Trichy letter No.08/DO-1/P.20/114-M, Dated: 20.04.2022.
  5. The Deputy Director, Geology and Mining, Karur letter No. 192/Mines/2021, Dated: 29.04.2022.

( invite kind attention to the references cited.

3. The Executive Engineer, PWD/WRD, Mining and Monitoring Division, Trichy-20 in the reference 1<sup>st</sup> cited has requested for grant of permission for a new sand quarry over an extent of 24.00.0 hectare, in S.P.No.265/1(Part) of Government proclama land in Achampuram Village, Muzumangalam Taluk, Karur District. The District Collector, Karur has issued proclama area commission to the Executive Engineer, WRD, Mining and Monitoring Division, Trichy-20 for the applied area and directed to submit the

approved mining plan and to obtain Environmental Clearance from the SEMA -Tamil Nadu, Chennai-13 vide reference 2<sup>nd</sup> cited.

4. Accordingly, the Executive Engineer in the reference 1<sup>st</sup> cited had submitted Mining Plan and it was approved by the Deputy Director, Geology and Mining, Karur vide reference 3<sup>rd</sup> cited.

5. The Executive Engineer in the reference 4<sup>th</sup> cited has advised that the SEMA has instructed to present the certificate stating that no sand quarries have been situated within 500 mts radius from the proposed new sand quarry by the Geology and Mining Department and verified that no quarries have been situated within 500 mts radius of the proposed sand quarry and requested to issue the above certificate to get the SEMA approval.

6. Hence, the details of existing, proposed and abandoned quarries located within 500 meters radius from subject area quarry is furnished as follows:-

a) Details of existing quarries

S. No.	Name of the Quarry	Village & Taluk	S.P. No.	Extent (Hectare)	Minerals	Remarks

b) Details of proposed quarries

S. No.	Name of the Quarry	Village & Taluk	S.P. No.	Extent (Hectare)	Minerals	Remarks
1	The Executive Engineer, PWD/WRD, Mining and Monitoring Division, Trichy	Achampuram, Muzumangalam	265/1(Part)	24.00.0	Sand	

c) Details of expired and abandoned quarries

S. No.	Name of the Quarry	Village & Taluk	S.P. No.	Extent (Hectare)	Minerals	Remarks

This letter is issued for the purpose of obtaining environmental clearance from the SEMA-TN, Chennai-13 vide

*(Signature)*  
Deputy Director,  
Geology and Mining,  
Karur

A - REGISTER

The image shows a document that is extremely faded and blurry. It appears to be a register or ledger with multiple columns and rows of text. The text is illegible due to the low resolution and blurriness. There are some faint markings and what might be a signature or stamp at the bottom of the page, but they are not clearly visible.

*[Handwritten signature or mark]*

Agar - uji bakteria **5.6A** **Ammonia** **Ammonia**

Media & Bahan-bahan					Kandungan	Jumlah Bahan				
No	Bahan	Unit	Formula	Keperluan		No	Bahan	Unit	Formula	Keperluan
1	Agar	100g			1	Ammonia	100ml			
2	Agar	100g			2	Ammonia	100ml			
3	Agar	100g			3	Ammonia	100ml			
4	Agar	100g			4	Ammonia	100ml			
5	Agar	100g			5	Ammonia	100ml			
6	Agar	100g			6	Ammonia	100ml			
7	Agar	100g			7	Ammonia	100ml			
8	Agar	100g			8	Ammonia	100ml			
9	Agar	100g			9	Ammonia	100ml			
10	Agar	100g			10	Ammonia	100ml			

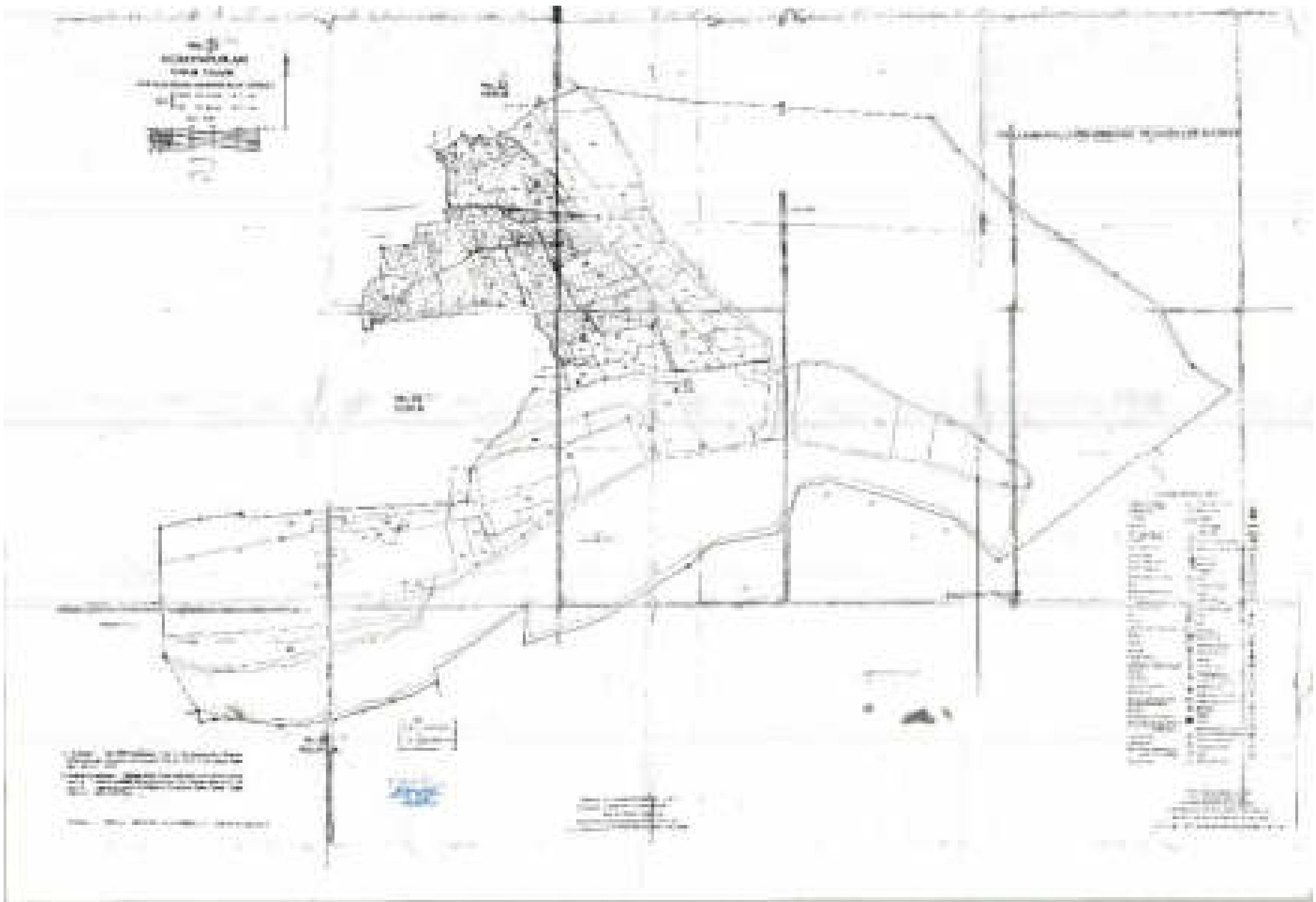
Ammonia  
 P. Ammonia  
 Ammonia  
 Ammonia

Agar - uji bakteria **5.6A** **Ammonia** **Ammonia**

Media & Bahan-bahan					Kandungan	Jumlah Bahan				
No	Bahan	Unit	Formula	Keperluan		No	Bahan	Unit	Formula	Keperluan
1	Agar	100g			1	Ammonia	100ml			
2	Agar	100g			2	Ammonia	100ml			
3	Agar	100g			3	Ammonia	100ml			
4	Agar	100g			4	Ammonia	100ml			
5	Agar	100g			5	Ammonia	100ml			
6	Agar	100g			6	Ammonia	100ml			
7	Agar	100g			7	Ammonia	100ml			
8	Agar	100g			8	Ammonia	100ml			
9	Agar	100g			9	Ammonia	100ml			
10	Agar	100g			10	Ammonia	100ml			

Ammonia

# VILLAGE MAP



GOOGLE IMAGERY OF PROJECT SITE





Nearest Habitation = 720m East

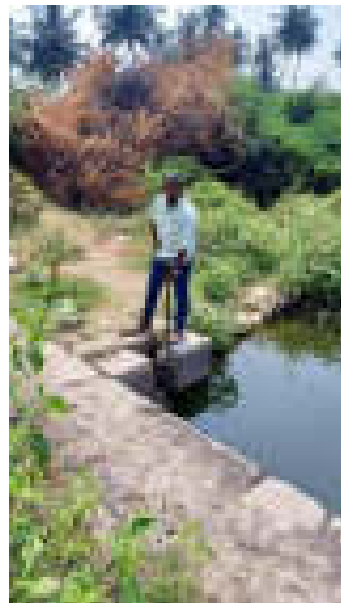


PROJECT SITE PHOTOGRAPHS

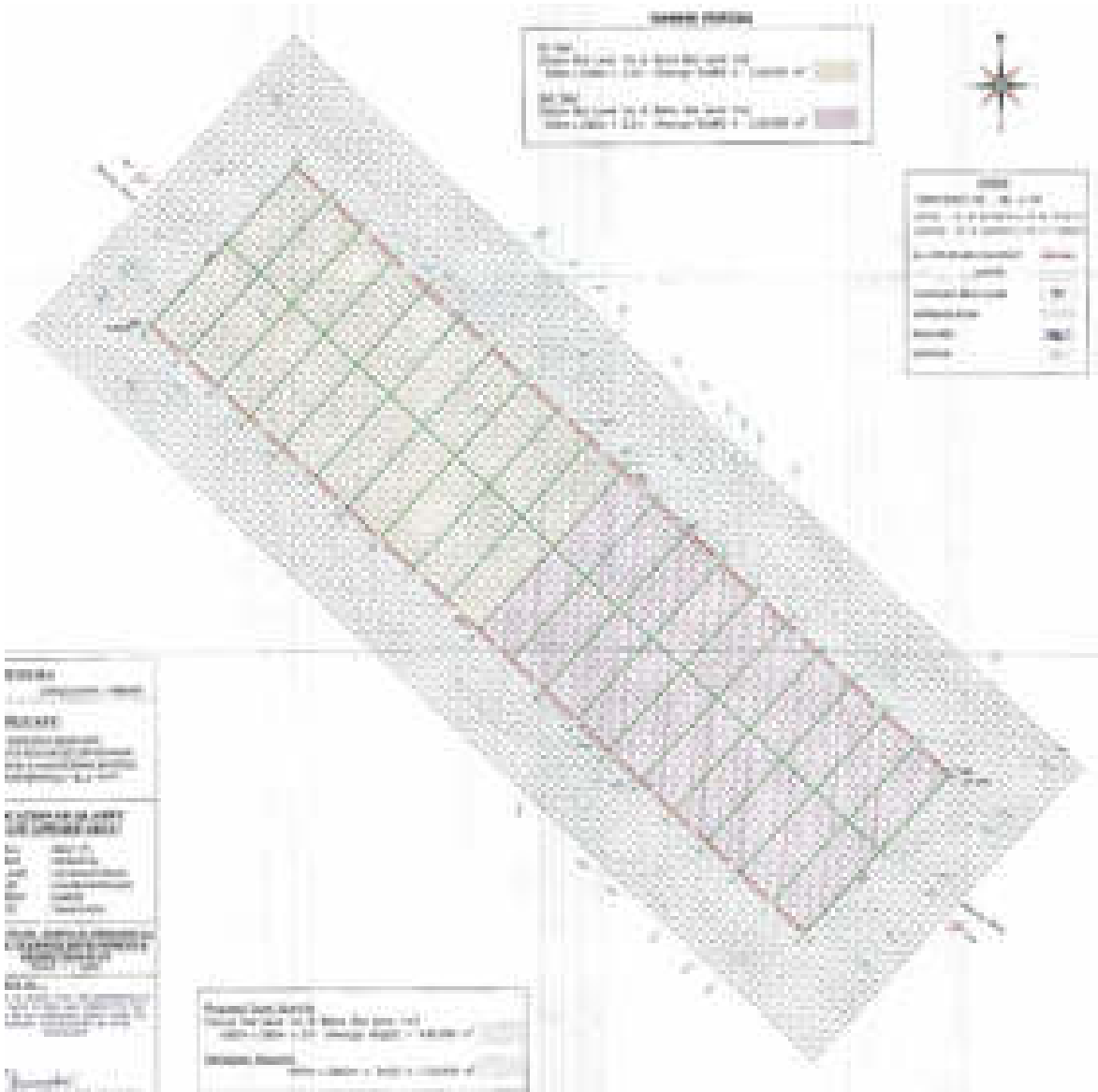


*Handwritten signature or mark*

# DGPS SURVEY PHOTOGRAPHS

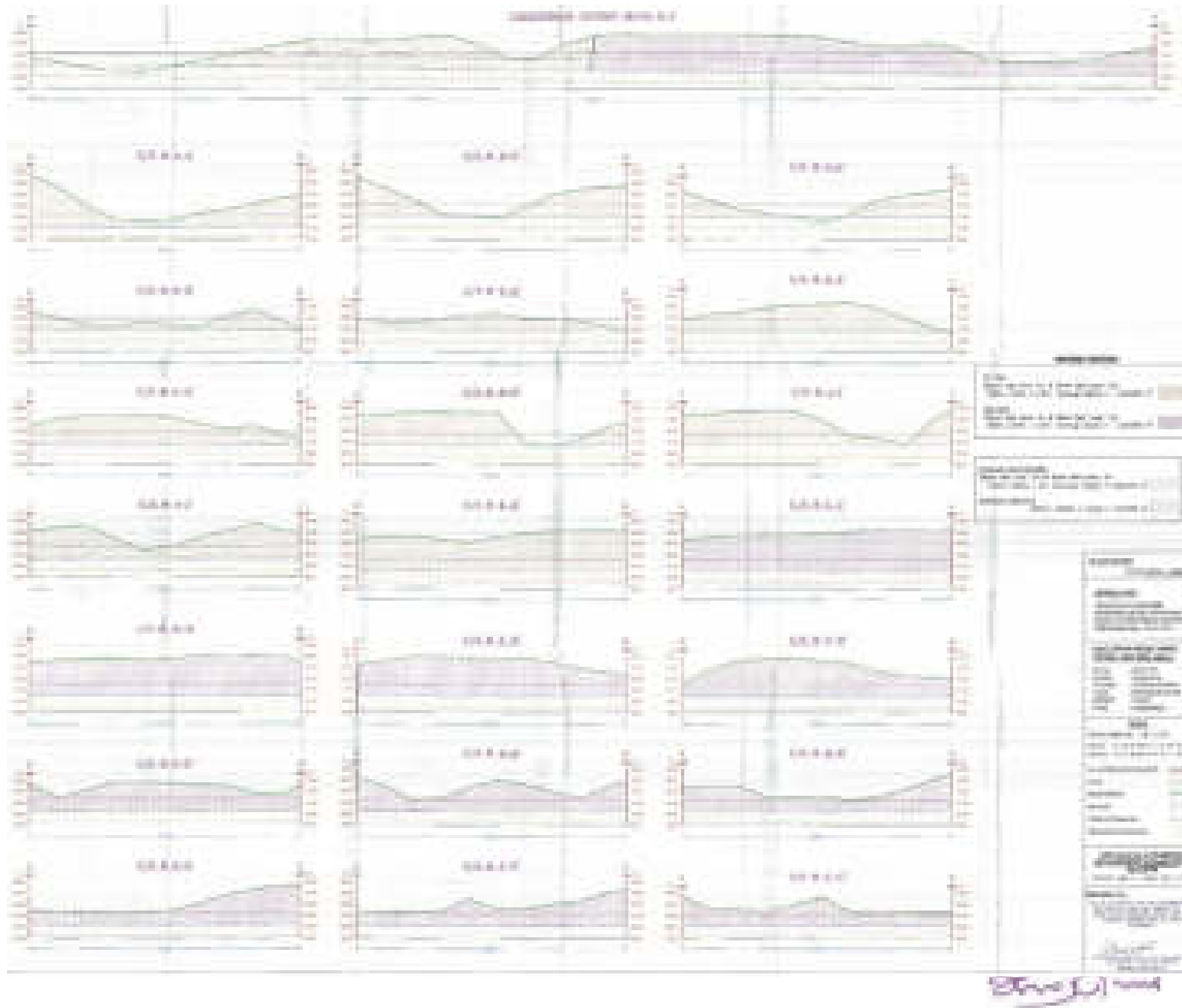


*Handwritten signature or mark*



**TOPOGRAPHY AND  
YEAR WISE  
PRODUCTION PLAN**

# TOPOGRAPHY AND YEAR WISE PRODUCTION SECTIONS



## RESOURCES, RESERVES AND PRODUCTION DETAILS

<b>Geological Resources of Sand in m<sup>3</sup></b>	7,20,000m <sup>3</sup>
<b>Mineable Reserves of Sand in m<sup>3</sup></b>	4,80,000m <sup>3</sup>

### Proposed Production for Two years

Years	Sand in m <sup>3</sup>
I	2,40,000
II	2,40,000

**Depth – 2m average (1m above river bed level & 1m below river bed level)**

### MINE CLOSURE PLAN

At present the area is river bed with undulating ups and downs, there is no mined out land. The quarried out land will facilitate the functional free flow of the river an increase it carrying capacity. After completion of quarry operation, the quarried out pit naturally replenished during ensuring rainy season

**SLIDE 12**

If the proponent or any other person (with name specified) have been already carried out the mining activity in the proposed mining lease area. Then, whether the proponent has furnished the following details from AD/DD Mines.

PARTICULARS	DETAILS
What was the period of the operation of the earlier mines with last work permit issued by the AD/DD Mines?	Not applicable
Quantity of minerals mined out and approved and actual depth of mining.	Not applicable
If EC and CTO already obtained and its compliance report from competent authority	Not applicable

## SITE SPECIFIC ENVIRONMENTAL IMPACTS

<b>TYPE OF IMPACT</b>	<b>CAUSES OF IMPACT</b>
Impact on Land and Soil	By overall mining activity like excavation, Sand removal, mineral excavation and solid waste generation
Impact on Air Quality	Fugitive dust, gaseous emissions and generation of particulate matter of various source like movement of HEMM and Tippers
Impact on Surface Water, Ground Water and Hydrogeology	Run-off / wash off during storm from excavated surface or dumps leading accumulation of sediments
Impact on Noise Levels and Ground Vibration	Only due to movement of HEMM No drilling and blasting involved
Impact on ecology (Flora & Fauna)	Clearance of vegetation and loss of Habitat
Impact on Socio-economic environment (population & settlement)	Economic growth, employment opportunities (direct & indirect)
Cumulative Quarry Impact on all Environmental Attributes	By overall mining activity, surface run-off, economic growth.

## **CORPORATE ENVIRONMENT RESPONSIBILITY**

CER will be carried out as per MoEF & CC Notification Dated: 30/09/2020 as a part of Environment Management Plan

### **REQUEST TO HONOURABLE SEIAA/SEAC**

The main aim of the project is **Restore the ecology of the river by restoring the lost functional Efficiency / carrying capacity of the Cauvery River”**

The proposed quarry project falls under “B1” category as per MoEF & CC Guidelines. And magnitude of impacts has to be studied considering all the activities along with the Standard ToR Prescribed by MoEF & CC.

Hence, we request you to kindly recommend for issue of **TERMS OF REFERENCE (ToR)**.

# THANK YOU