

**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 COLEROON RIVER****LEASE PERIOD – 2 YEARS****NON FOREST LAND/ GOVERNMENT LAND/ MINOR MINERAL / NEW QUARRY**Proposed Production Capacity = **3,20,000 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	: 350 (PART)	<b>The Executive Engineer,</b> Water Resource Department, Mining and Monitoring Division, Thiruchirappalli District, Tamil Nadu State – 620 020
Extent	: <b>16.00.0 Ha</b>	
Village	: Elakkurichi	
Taluk	: Ariyalur	
District	: Ariyalur	
State	: Tamil Nadu	

**Consultant : GEO EXPLORATION AND MINING SOLUTIONS, Salem, Tamil Nadu**

## INTRODUCTION

- **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 Coleroon River**”

- **STATUTORY APPROVALS :**

- Precise area communication letter received from the District Collector Rc.No.23/G&M/2021, Dated: 03.02.2022
- Approved mining plan letter Rc.No.23/G&M/2021, Dated: 20.05.2022

- **SALIENT FEATURES :**

- Total Number of Employees proposed = 40 Nos
- Total Cost of the project = Rs 58,33,000/-
- EMP Cost = Rs 1,50,000/-
- Co ordinates of the boundaries

Corner	Co ordinates (Latitude & Longitude)
1	10°56'42.7622"N 79°09'59.3678"E
2	10°56'40.7864"N 79°10'25.6369"E
3	10°56'34.2967"N 79°10'25.1369"E
4	10°56'36.2724"N 79°09'58.8679"E

**SLIDE 3****ENVIRONMENTAL SETTINGS**

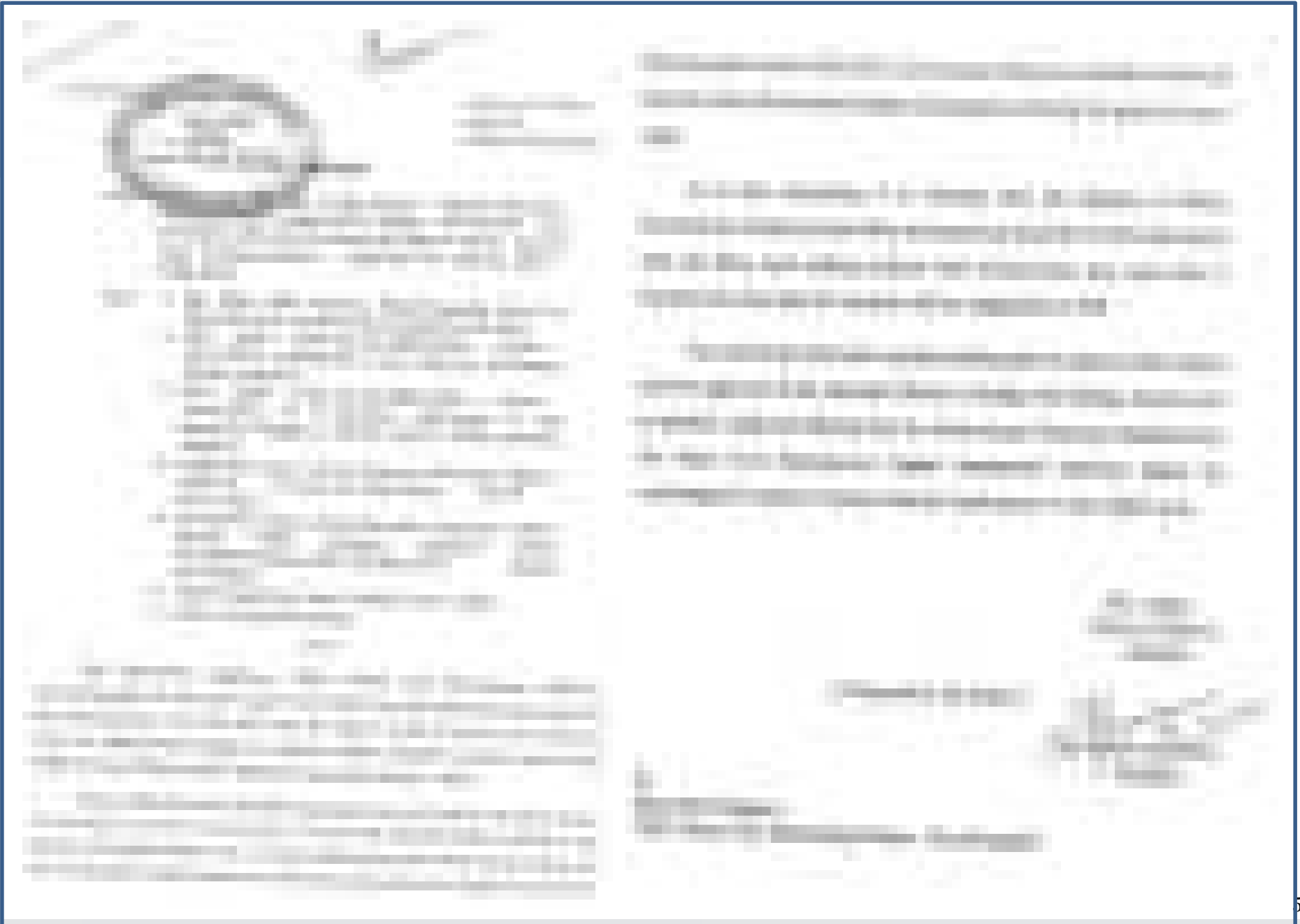
S.No	Description	Particulars	Ariel Distance & Direction
1	Nearest National Highway	NH 36 – Vikravandi – Manamadurai	5.0 kms – South East
2	State Highways	SH 22 – Grand Anaicut – Kaveripattinam	3.0 kms – South East
3	Railway Station	Ayyampettai	6.0 kms – South East
4	Airport	Thiruchirappalli	54.0 kms – South West
5	Nearest Habitation	640 m – North West	
6	Town	Ariyalur	24.0 km – North West
7	School	Government Higher Secondary School	2.1 km – South West
8	Government Hospital	Thirumanur	7.5 km – West
9	Reserved Forest	1) Alagiyamanavalam R.F. – 1.3km & 2.5km – NE, 2) Kuruvadi R.F. – 5.2km, 6.5km & 8.0km – NE, 3) Reserve forest – 2.1km – West, 3) Thiruvenganur R.F. – 3.8km – West, 4) Karaippakkam R.F. – 8.8km – West	
10	Defense Installation/Historical Monuments/ Archaeological	Nil within 10km Radius	
11	Nearby Water Bodies	The project area is falls in Coleroon River, Odai – 900m – NW Punavasal Channel – 1.10km – South, Tank – 1.20km – NW Pullambadi canal – 2.6km – North, Cauvery River – 3.2km – South Sukra Eri – 3.6km – NE, Manniyar Channel – 4.6km – SE Kodamurutti River – 4.7km – South, Arasalar River – 5.5km – SE Ponnar Canal – 7.3km – NE, Marudai River – 8.1km – NE CRZ – 74.7km – East	

Sl.No	General Conditions	Distance & Direction
1	Interstate Boundary	Around 197.2 km – NW (Karnataka State Boundary)
2	Critically Polluted areas identified by the CPCB	Around 98 km – NE (SIPCOT Industrial Complex – Cuddalore)
3	Protected areas Notified under wildlife (Protection) Act,1972	Around 12.5 km – NW –Karaivetti Birds Sanctuary Around 177.5 km – SW – Kodaikanal wild life Sanctuary

**SALIENT FEATURES OF THE PROJECT**

Name of the Quarry	Elakkurichi Sand quarry project	
Highest Elevation	30.47m AMSL to 32.66m AMSL	
River Bed level within project site	30.857m AMSL on the upstream	
	30.377m 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	3,20,000m <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)	4 Nos
	Tippers (from quarry to nearby approved sand stock yard unit)	15 Nos (Hired Basis)
Proposed Manpower Deployment	40 Nos	
Total Cost	Project Cost	Rs. 58,33,000/-
	Environment Monitoring Cost	Rs. 1,50,000/-
	Total	Rs. 59,83,000/-

# PRECISE AREA COMMUNICATION LETTER



# MINING PLAN APPROVAL LETTER

[The main content of the slide is a blurred image of a document, likely a mining plan approval letter, which is not legible due to the low resolution.]

# MINING PLAN APPROVAL LETTER



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**LAND DOCUMENT**

A - REGISTER

The image shows a document page with a dark horizontal header bar at the top. Below the header, the page is filled with a grid of text, characteristic of a register or ledger. The text is extremely pixelated and illegible, but the structure suggests multiple columns and rows of data. The overall appearance is that of a scanned document with very low resolution.

ADANGAL

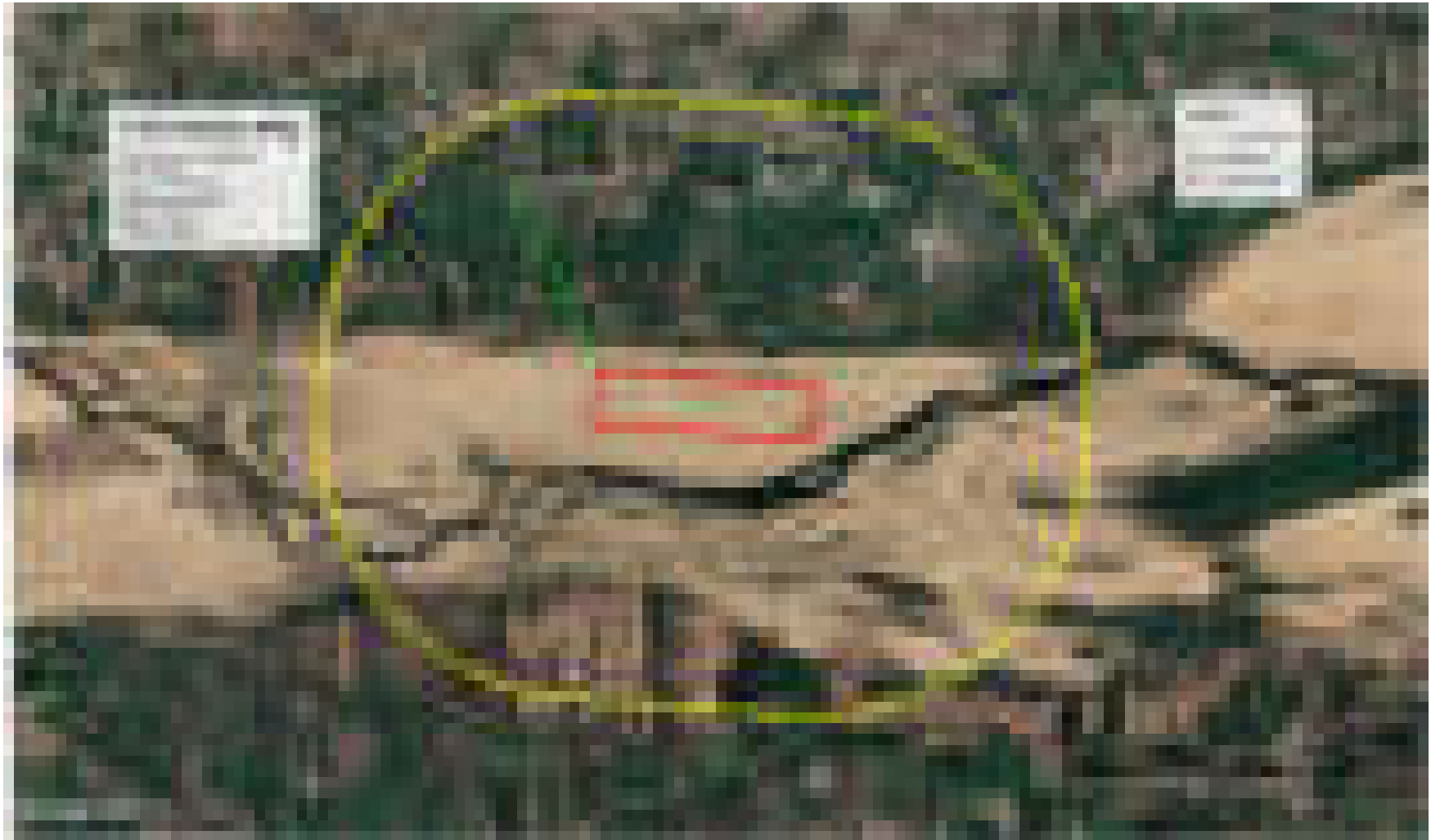
The image displays two side-by-side tables. The left table has a grid structure with approximately 10 columns and 15 rows. A row in the middle of the table is highlighted in purple. The right table is similar in structure but has a grey shaded header row at the top. The text within the cells of both tables is too blurry to be transcribed accurately.

# VILLAGE MAP



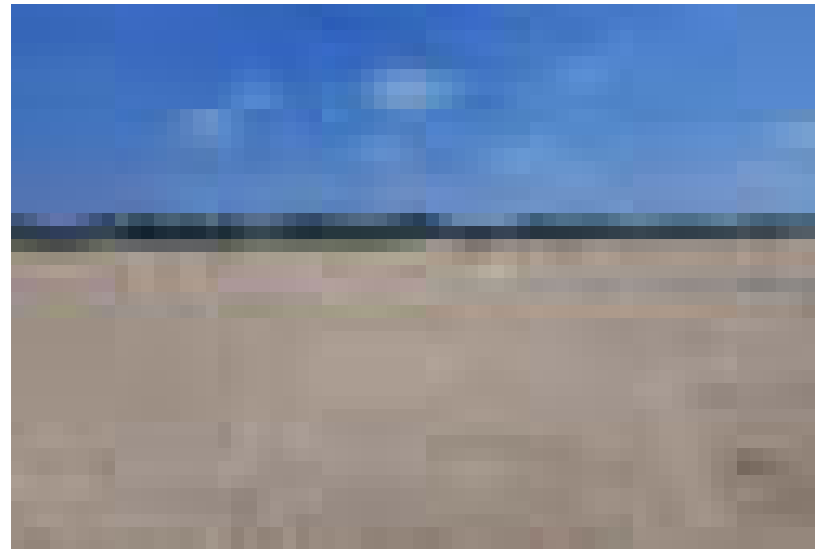
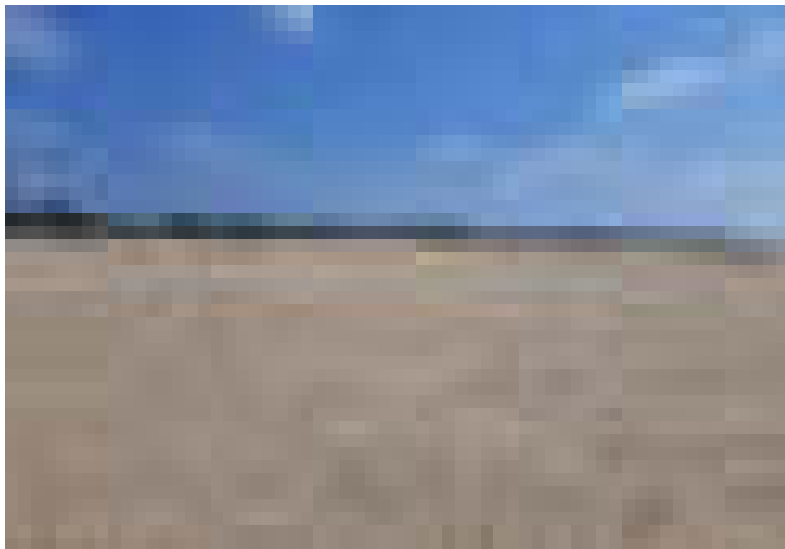


**GOOGLE IMAGERY – 1Km RADIUS**



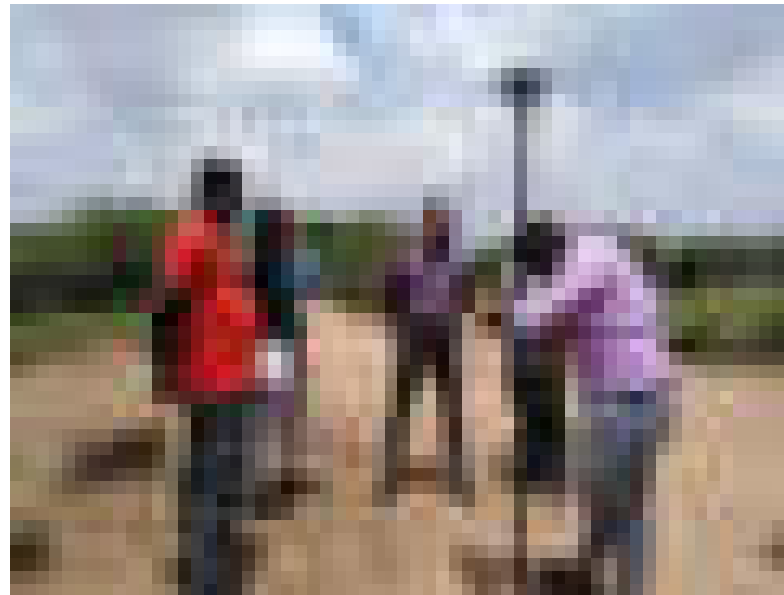
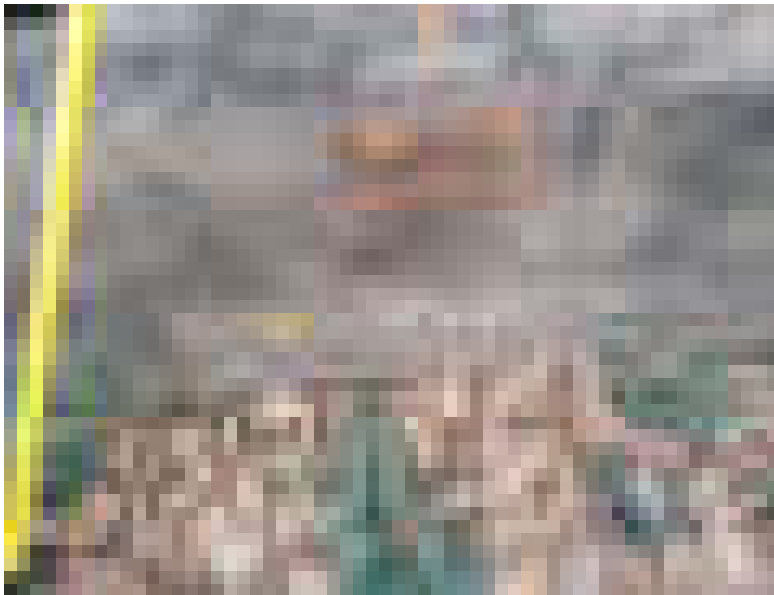
**Nearest Habitation = 640m North West**

**PROJECT SITE PHOTOGRAPHS**



**SLIDE 9A**

## DGPS SURVEY PHOTOGRAPHS



**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>	8,00,000m <sup>3</sup>
<b>Mineable Reserves of Sand in m<sup>3</sup></b>	3,20,000m <sup>3</sup>

**Proposed Production for Two years**

<b>Years</b>	<b>Sand in m<sup>3</sup></b>
I	1,60,000
II	1,60,000

**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 Coleroon 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**