

### Project Details:

- ❖ Name of the Project: Elakkurichi Sand Quarry Project
- ❖ Project Proponent: The Executive Engineer, Water Resources Department, Tiruchirappalli
- ❖ Location of the area: S.F.No. 350 (Part) of Elakkurichi Village, Ariyalur Taluk, Ariyalur District, Tamil Nadu.
- ❖ Area of the Project: 16.00.0Ha
- ❖ Ownership: It is a Government land (River Poramboke).

### Government Order/Letter Details:

- ❖ The precise area communication letter was received from the District Collector, Ariyalur District vide Rc.No. 23/G&M/2021, Dated: 03.02.2022. To submit approved mining plan and to obtain Environmental Clearance from the State Level Environmental Impact Assessment Authority, Tamil Nadu (Refer Annexure No. I).
- ❖ As per the precise area communication letter the Mining plan was approved by the Assistant Director, Department of Geology and Mining, Tiruchirappalli vide **Rc.No. 23/G&M/2021, Dated: 20.05.2022. (Enclosed Annexure No. VII).**

### Operation Details:

- It is a fresh lease application of Elakkurichi Sand quarry project for **“Restoring the Functional efficiency of the Coleroon River”**

### Production Details:

- ❖ Geological Resources: **8,00,000m<sup>3</sup>** of Sand
- ❖ Mineable Reserves: **3,20,000m<sup>3</sup>** of Sand
- ❖ Recoverable Reserves: **3,20,000m<sup>3</sup>** of Sand
- ❖ Proposed Depth: **2.0m (1m Above Bed Level + 1m Below Bed Level)**
- ❖ Lease Period: Two years

### EIA Notification & Norms:

- ❖ EIA notification 2006 requires Submission of Form – 1, Form 1M and Pre-Feasibility report for obtaining Environmental Clearance since the Pre-feasibility report is prepared as per the Guidelines issued by the Ministry of Environment and Forest dated 30<sup>th</sup> December 2010.
- ❖ As per the Notification S.O. 3977 (E) Dated 14<sup>th</sup> August, 2018: The Mining project is falls under Schedule 1 (a), **Categorized as B1, Form – 1, Form 1M, Pre- Feasibility**

**Report (PFR)** and Approved Mining plan is required to Terms of Reference (ToR) Environmental Clearance from State Environmental Impact Assessment Authority (SEIAA), Chennai.

### SALIENT FEATURES OF THE PROJECT

S.No	PARTICULAR	DETAILS															
1.	Name of the Proponent	The Executive Engineer, Water Resources Department, Tiruchirappalli.															
2.	Type of Project	Removing of Sand quarry for Restoring the Functional efficiency of the Coleroon River” in Elakkurichi Village.															
3.	Location	S.F.No. 350 (Part) of Elakkurichi Village, Ariyalur Taluk and Ariyalur District, Tamil Nadu.															
4.	Mining lease area	Area: 16.00.0Ha															
5.	Type of land Patta/forest/PWD	It is a Government land - Non-Forest															
6.	Geographical co-ordinates	Latitude between:10°56'34.2967"N to 10°56'42.7622"N Longitudebetween:79°09'58.8679"E to 79°10'25.6369"E Boundary Co-Ordinates (Plate No. II) <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>S.No</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10°56'42.7622"N</td> <td>79°09'59.3678E</td> </tr> <tr> <td>2</td> <td>10°56'40.7864"N</td> <td>79°10'25.6369"E</td> </tr> <tr> <td>3</td> <td>10°56'34.2967"N</td> <td>79°10'25.1369"E</td> </tr> <tr> <td>4</td> <td>10°56'36.2724"N</td> <td>79°09'58.8679"E</td> </tr> </tbody> </table> Datum: UTM-WGS84, Zone 44 North	S.No	Latitude	Longitude	1	10°56'42.7622"N	79°09'59.3678E	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
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7	Topo Sheet No.	Topo sheet No: 58-N/ 01															
8	Name of the mineral mined	Sand quarry project															
9	<b><u>Production (quantity in m<sup>3</sup>)</u></b> <ul style="list-style-type: none"> <li>➤ Sand -3,20,000m<sup>3</sup>ie., 53,334Lorry Loads</li> <li>➤ Proposed depth-2.0m (1m Above Bed Level + 1m Below Bed Level)</li> <li>➤ Lease Period -Two years</li> </ul> <table border="1" style="margin-left: 20px;"> <thead> <tr> <th style="background-color: #d9e1f2;">Description</th> <th style="background-color: #d9e1f2;">Sand (m<sup>3</sup>)</th> </tr> </thead> <tbody> <tr> <td>Geological Resources</td> <td>8,00,000</td> </tr> <tr> <td>Available Mineable reserves</td> <td>3,20,000</td> </tr> <tr> <td>Proposed Quantity as in the approved mining plan</td> <td>3,20,000</td> </tr> </tbody> </table>		Description	Sand (m <sup>3</sup> )	Geological Resources	8,00,000	Available Mineable reserves	3,20,000	Proposed Quantity as in the approved mining plan	3,20,000							
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10	Overburden /Waste	There is no over burden/Waste within the applied area	
11	Rate of Production (in tons)	6,40,000Ts	
12	Life of mine	Available Mineable reserves= 3,20,000m <sup>3</sup> Average production = 1,60,000m <sup>3</sup> life of mine = 3,20,000m <sup>3</sup> / 1,60,000m <sup>3</sup> = 2 years	
13	Method of Mining	It is an Opencast method of conventional mechanized quarrying operation without drilling and blasting.	
14	Drilling/Blasting	It is an Opencast method of conventional mechanized quarrying operation without drilling and blasting.	
15	Ultimate depth of Mining	The ultimate depth of mining is about <b>2m (1m Above Bed Level + 1m Below Bed Level)</b>	
16	Break-up of land utilization pattern	<b>Description</b>	<b>Present area in (Ha)</b>
		Quarrying pit	Nil
		Infrastructure	Nil
		Roads	Nil
		Green Belt	Nil
		Unutilized Area	16.00.0
		<b>Grand Total</b>	<b>16.00.0</b>
17	Topography of the area	Lease area – Exhibits flat topography Altitude – Area varies from 30.47m to 32.66m above from MSL and the River bed level is 30.857m on the upstream side and 30.377m on the downstream side above from MSL. Slope – towards Eastern side	
18	Land use classification	The applied area is located in Coleroon River and it was tributary of Coleroon River.	
19	Name of River/ Nallahs /Tanks /Spring/ Lakes etc.	<b><u>Water bodies:</u></b> <ul style="list-style-type: none"> <li>➤ The applied area is located in Coleroon River</li> <li>➤ Odai – 900m-NW</li> <li>➤ Punavasal Channel – 1.10km-South</li> <li>➤ Tank – 1.20km--NW</li> <li>➤ Pullambadi canal – 2.6km-North</li> <li>➤ Kaveri River – 3.2km-South</li> <li>➤ Sukra Eri – 3.6km-NE</li> <li>➤ Manniyar Channel – 4.6km-SE</li> <li>➤ Kodamurutti River – 4.7km-South</li> <li>➤ Arasalar River – 5.5km-SE</li> <li>➤ Ponnar Canal – 7.3km-NE</li> <li>➤ Marudai River – 8.1km-NE</li> <li>➤ CRZ – 74.7km-East</li> </ul>	

20	Name of Reserve Forest, Wildlife Sanctuary/National Park	<ul style="list-style-type: none"> <li>➤ Alagiyamanavalam R.F–1.3km &amp; 2.5km- NE</li> <li>➤ Kuruvadi R. – 5.2km, 6.5km &amp; 8.0km– NE</li> <li>➤ Reserve forest – 2.1km -West</li> <li>➤ Thiruvenganur R.F., – 3.8km -West</li> <li>➤ Karaippakkam R.F., – 8.8km -West</li> <li>➤ Karaivetti Bird Sanctuary– 12.5km - NW</li> <li>➤ Kodaikanal wild life Sanctuary–177.5km-SW</li> </ul>
21	Ground water level	Ground water is about 10m depth below ground level.
22	Climatic condition	Rainfall - 1072mm/annum Temperature - 42°C - 22°C (Source from Approved Mining plan)
23	Land use pattern	<u><b>Land use pattern (Plate No.II)</b></u> Road/Trees – 10% Stream/River – 45% Agricultural land – 35% Habitation – 05%
24	Nearest habitation	Nearest Habitation – 640m-NW
25	Nearest Town	Ariyalur – 24km – NW
26	Nearest Railway station	Ayyampettai Railway station – 6.0Km – SE
27	Nearest Airport	Tiruchirappalli Airport – 54.0Km – SW
28	Nearest National Highways & State Highways	NH-36- Vikravandi – Manamadurai –5.0km – SE SH-22- Grand Anaicut – Kaveripattinam –3.0km-SE
29	Nearest Hospital	Thirumanur – 7.0km – SW
30	Aerial distance to the nearest Eco sensitive areas, CRZ, forest, wild life sanctuary, Interstate boundary, critically polluted area if the quarry site is within 500m of these areas.	There are no Eco sensitive areas, CRZ, forest, wild life sanctuary, Interstate boundary, Reserve Forest, Western Ghats, critically polluted area within the radius of 500m
31	Details of other quarries for a radius of 500m around the quarry site	There is no quarry located within the radius of 500m from the proposed project site. Details – Abandoned quarry – Nil Existing quarry – Nil Proposed quarry – 1No (16.00.0Ha) Future proposed quarries – Nil The total extent of the proposed quarry within the radius of 500m is 16.00.0Ha. The quarry details letter issued by Assistant Director, Department of Geology and Mining, Tiruchirappalli vide Rc.No. 23/G&M/2021, Dated: 20.05.2022. (Enclosed Annexure No. VIII).

32	Man power	Total Employees proposed for the quarry operation is <b>40Nos.</b>
33	Water requirement & source	Requirement –3.6KLD Source - From Approved water vendors and nearby open well
34	Cost of the project	<p><b><u>The Project cost:</u></b></p> <p>A. Project cost = Rs.58,33,000/-</p> <p>B. EMP cost = Rs. 1,50,000/-</p> <p><b>Total Project Cost (A+B) = Rs. 59,83,000/-</b></p>