

## EXECUTIVE SUMMARY

### Project Details:

- ❖ Name of the Project: Virahalur Sand Quarry Project
- ❖ Project Proponent: The Executive Engineer, Water Resources Department, Tiruchirappalli
- ❖ Location of the area: S.F.No. 214 (Part) and 234 (Part) of Virahalur Village, Lalgudi Taluk, Tiruchirappalli District, Tamil Nadu.
- ❖ Area of the Project: 24.00.0Ha
- ❖ Ownership: It is a Government land (River Poramboke).

### Government Order/Letter Details:

- ❖ The precise area communication letter was received from the District Collector, Tiruchirappalli District vide ***Rc.No. 698/2021/Mines, Dated: 22.02.2022.*** 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. 698/2021/Mines Dated: 12.05.2022. (Enclosed Annexure No. VIII).***

### Operation Details:

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

### Production Details:

- ❖ Geological Resources: **12,00,000m<sup>3</sup>** of Sand
- ❖ Mineable Reserves: **7,68,000m<sup>3</sup>** of Sand
- ❖ Recoverable Reserves: **7,68,000m<sup>3</sup>** of Sand
- ❖ Proposed Depth: **3.2m (2.2m 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 Obtain 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 Virahalur Village.															
3.	Location	S.F.No. 214 (Part) and 234 (Part) of Virahalur Village, Lalgudi Taluk and Tiruchirappalli District, Tamil Nadu.															
4.	Mining lease area	Area: 24.00.0Ha															
5.	Type of land Patta/forest/PWD	It is a Government land - Non-Forest															
6.	Geographical co-ordinates	Latitude between:10°53'53.3283"Nto 10°54'01.5626"N Longitudebetween:78°58'21.6578"Eto78°59'01.4184"E Boundary Co-Ordinates (Plate No. II)															
		<table border="1"> <thead> <tr> <th>S.No</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10°53'59.8297"N</td> <td>78°58'21.6578"E</td> </tr> <tr> <td>2</td> <td>10°54'01.5626"N</td> <td>78°59'01.1264"E</td> </tr> <tr> <td>3</td> <td>10°53'55.0612"N</td> <td>78°59'01.4184"E</td> </tr> <tr> <td>4</td> <td>10°53'53.3283"N</td> <td>78°58'21.9501"E</td> </tr> </tbody> </table>	S.No	Latitude	Longitude	1	10°53'59.8297"N	78°58'21.6578"E	2	10°54'01.5626"N	78°59'01.1264"E	3	10°53'55.0612"N	78°59'01.4184"E	4	10°53'53.3283"N	78°58'21.9501"E
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7	Topo Sheet No.	Topo sheet No: 58-J/ 13															
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 - 7,68,000m<sup>3</sup> ie., 1,28,000Lorry Loads</li> <li>➤ Proposed depth - 3.2m (2.2m Above Bed Level + 1m Below Bed Level)</li> <li>➤ Lease Period - Two years</li> </ul>																
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10	Overburden /Waste	There is no over burden/Waste within the applied area															
11	Rate of Production (in tons)	7,68,000Ts															
12	Life of mine	Available Mineable reserves = 7,68,000m <sup>3</sup> Average production = 3,84,000m <sup>3</sup> life of mine = 7,68,000m <sup>3</sup> / 3,84,000m <sup>3</sup>															



		= 2 years														
13	Method of Mining	It is a 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>3.2m (2.2m Above Bed Level + 1m Below Bed Level)</b>														
16	Break-up of land utilization pattern	<table border="1"> <thead> <tr> <th><i>Description</i></th> <th><i>Present area in (Ha)</i></th> </tr> </thead> <tbody> <tr> <td>Quarrying pit</td> <td>Nil</td> </tr> <tr> <td>Infrastructure</td> <td>Nil</td> </tr> <tr> <td>Roads</td> <td>Nil</td> </tr> <tr> <td>Green Belt</td> <td>Nil</td> </tr> <tr> <td>Unutilized Area</td> <td>24.00.0</td> </tr> <tr> <td><b>Grand Total</b></td> <td><b>24.00.0</b></td> </tr> </tbody> </table>	<i>Description</i>	<i>Present area in (Ha)</i>	Quarrying pit	Nil	Infrastructure	Nil	Roads	Nil	Green Belt	Nil	Unutilized Area	24.00.0	<b>Grand Total</b>	<b>24.00.0</b>
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17	Topography of the area	Lease area – Exhibits flat topography Altitude –43.35m to 48.07m above from MSL and the River bed level is 43.69m on the upstream side and 43.45m 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.	<ul style="list-style-type: none"> <li>➤ Stream – 900m -N</li> <li>➤ Nandiyar Vaykkal – 1.2km-N</li> <li>➤ Odai – 3.1km-NE</li> <li>➤ Cauver River – 3.2km-S</li> <li>➤ Kulaiyar River – 3.2km-W</li> <li>➤ Canal – 3.4km-NW</li> <li>➤ Canal – 3.7km-S</li> <li>➤ Canal - 4.0km-NW</li> <li>➤ Kodamurutti River – 4.6km-S</li> <li>➤ Palanganatham lake – 4.6km-N</li> <li>➤ Elandai Lake – 4.8km-NE</li> <li>➤ Alangudimahajanam Lake – 5.2km-W</li> <li>➤ Pullambadi Canal – 5.3km-N</li> <li>➤ Kadungal Vaykkal – 5.9km-S</li> <li>➤ Vennar River – 9.8km-S</li> <li>➤ CRZ – 78.0km-SE</li> </ul>														
20	Name of Reserve Forest, Wildlife Sanctuary/National Park	<ul style="list-style-type: none"> <li>➤ Aranmanaikurichi R.F - 9.3km - NE</li> <li>➤ Karaivetti Bird sanctuary - 9.6km - NE</li> <li>➤ Karaipakkam Ext R.F - 10.7km - NE</li> <li>➤ Kodaikanal Wildlife -156.2km - SW</li> </ul>														

21	Ground water level	Ground water is about 12m depth below ground level.
22	Climatic condition	Rainfall - 818mm/annum Temperature - 42°C - 22°C (Source from Approved Mining plan)
23	Land use pattern	<b><u>Land use pattern (Plate No.II)</u></b> Road/Trees - 15% Stream/River - 40% Agricultural land - 45%
24	Nearest habitation	Habitation - 980m- N
25	Nearest Town	Lalgudi - 17.0km - SW
26	Nearest Railway station	Pullambadi Railway station - 8.0Km - NW
27	Nearest Airport	Tiruchirappalli Airport - 32.0Km - SW
28	Nearest National Highways & State Highways	NH-81 - Tiruchirappalli - Ariyalur -8.0km - NW SH-22- Tiruchirappalli - Kumbakonam -3.0km-S
29	Nearest Hospital	Pullambadi - 8.0km-NW
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 other quarry located within the radius of 500m from the proposed project site. Details - Abandoned quarries - Nil Existing quarries - Nil Proposed quarries - 1No (24.00.0Ha) Future proposed quarries - Nil The total extent of the proposed quarry within the radius of 500m is 24.00.0Ha. The quarry details letter issued by Assistant Director, Department of Geology and Mining, Tiruchirappalli vide <b><i>Rc.No. 698/2021/Mines Dated: 12.05.2022</i></b> (Enclosed Annexure No. IX).
32	Man power	Total Employees proposed for the quarry operation is <b>40Nos.</b>
33	Water requirement & source	Requirement -2.4KLD 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. 1,34,10,000/-</p> <p>B. EMP cost = Rs. 1,50,000/-</p> <p>Total Project Cost (A+B) = Rs.1,35,60,000/-</p>
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