

## 1. EXECUTIVE SUMMARY

### Project Details:

- ❖ Name of the Project: Achamapuram Sand Quarry
- ❖ Project Proponent: The Executive Engineer, Water Resources Department, Thiruchirappalli
- ❖ Location of the area: S.F.No. 265/1(Part) of Achamapuram Village, Manmangalam Taluk, Karur 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, Karur District vide ***Rc.No. 392/Mines/2021, Dated: 19.01.2022*** 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 Deputy Director, Department of Geology and Mining, Karur vide ***Rc.No. 392/Mines/2021 Dated: 29.04.2022. (Enclosed Annexure No. VIII).***

### Operation Details:

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

### Production Details:

- ❖ Geological Resources: **7,20,000m<sup>3</sup>** of Sand
- ❖ Mineable Reserves: **4,80,000m<sup>3</sup>** of Sand
- ❖ Recoverable Reserves: **4,80,000m<sup>3</sup>** of Sand
- ❖ Proposed Depth: **2m (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 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, Thiruchirappalli.																		
2.	Type of Project	Removing of Sand quarry for Restoring the Functional efficiency of the Cauvery River” in Achamapuram Village.																		
3.	Location	S.F.No. 265/1(Part) of Achamapuram Village, Manmangalam Taluk and Karur 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	Boundary Co-Ordinates (Plate No. II) <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="background-color: #cccccc;">S.No</th> <th style="background-color: #cccccc;">Latitude</th> <th style="background-color: #cccccc;">Longitude</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10°58'31.6713"N</td> <td>78°10'48.2644"E</td> </tr> <tr> <td>2</td> <td>10°58'37.4311"N</td> <td>78°10'53.5951"E</td> </tr> <tr> <td>3</td> <td>10°58'15.4851"N</td> <td>78°11'17.8825"E</td> </tr> <tr> <td>4</td> <td>10°58'09.7255"N</td> <td>78°11'12.5517"E</td> </tr> <tr> <td colspan="3" style="text-align: center;">Datum: UTM-WGS84, Zone 44 North</td> </tr> </tbody> </table>	S.No	Latitude	Longitude	1	10°58'31.6713"N	78°10'48.2644"E	2	10°58'37.4311"N	78°10'53.5951"E	3	10°58'15.4851"N	78°11'17.8825"E	4	10°58'09.7255"N	78°11'12.5517"E	Datum: UTM-WGS84, Zone 44 North		
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7	Topo Sheet No.	Topo sheet No: 58-J/ 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 - 4,80,000m<sup>3</sup> ie., 80,000Lorry Loads</li> <li>➤ Proposed depth - 2m (1m Above Bed Level + 1m Below Bed Level)</li> <li>➤ Lease Period - Two years</li> </ul> <table border="1" style="margin-left: auto; margin-right: auto; width: 60%;"> <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>7,20,000</td> </tr> <tr> <td>Available Mineable reserves</td> <td>4,80,000</td> </tr> <tr> <td>Proposed Quantity As in the approved mining plan</td> <td>4,80,000</td> </tr> </tbody> </table>	Description	Sand (m <sup>3</sup> )	Geological Resources	7,20,000	Available Mineable reserves	4,80,000	Proposed Quantity As in the approved mining plan	4,80,000											
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10	Overburden /Waste	There is no over burden/Waste within the applied area																		



11	Rate of Production (in tons)	4,80,000Ts														
12	Life of mine	Available Mineable reserves = 4,80,000m <sup>3</sup> Average production = 2,40,000m <sup>3</sup> life of mine = 4,80,000m <sup>3</sup> / 2,40,000m <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 a 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	<table border="1"> <thead> <tr> <th>Description</th> <th>Present area in (Ha)</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>	Description	Present area in (Ha)	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 – 100.40m to 105.88m above from MSL Slope – towards Southeast side														
18	Land use classification	The applied area is located in Cauvery River and it was tributary of Cauvery River.														
19	Name of River/ Nallahs /Tanks /Spring/ Lakes etc.	<b><u>Water bodies:</u></b> The applied area is located in Cauvery River Amaravathi River – 1.3km-SW Channel – 4.8km-SE Canal – 4.9km-NE Pidaramangalam lake – 6.0km-NE Upparu River – 6.2km-NE Nagayaballur lake – 7.3km-NE M.Kalathur lake – 10.02km-NE														
20	Name of Reserve Forest, Wildlife Sanctuary/National Park	Nattam R.F. – 5.7km – E Mayanur R.F. – 4.0km – SE Sithalavai R.F. – 8.9km – SE Vellode Bird Sanctuary – 64.7km – NW Kodaikanal wild life Sanctuary – 95.0km – SW														
21	Ground water level	Ground water is about 26m depth below ground level.														
22	Climatic condition	Rainfall – 655mm/annum Temperature – 42°C - 21°C (Source from Approved Mining plan)														

23	Land use pattern	<b>Land use pattern (Plate No.II)</b> Road/Trees – 5% Stream/River – 65% Agricultural land – 25% Habitation – 5%
24	Nearest habitation	Nearest habitation – 770m-SW
25	Nearest Town	Karur – 11.0km-W
26	Nearest Railway station	Veerarakkiyam Railway station – 4.0km-SW
27	Nearest Airport	Trichy Airport – 60.0Km – SE
28	Nearest National Highways & State Highways	Nearest National Highway (NH-81) Thiruchirappalli – Karur – 4.0km-S Nearest State Highway (SH-74) Karur – Dindigul – 11.0km-SW
29	Nearest Hospital	Karur – 11.0Km – W
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/Expired Quarry – Nil Existing Quarry – Nil Proposed Quarry – 1No (24.00.0Ha) The total extent of the proposed quarry within the radius of 500m is 24.00.0Ha. <b>The Project area falls under the cluster situation.</b> The quarry details letter issued by Deputy Director, Department of Geology and Mining, Karur vide <b><i>Rc.No. 392/Mines/2021 Dated: 10.05.2021 (Enclosed Annexure No. IX).</i></b>
32	Man power	Total Employees proposed for the quarry operation is <b>38Nos.</b>
33	Water requirement & source	Requirement –2.7KLD 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. 85,10,000/-</p> <p>B. EMP cost = Rs. 1,50,000/-</p> <p>Total Project Cost (A+B) = Rs.86,60,000/-</p>
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