

## **BRIEF SUMMARY OF THE PROJECT**

The applicant, The Executive Engineer, Water Resources Department, Mining and Monitoring Division, Chennai has applied for Sand Quarrying in Palar River over an extent of 11.70.0 Hectares in S.F. No.1 (P) & 213 (P) in Kuthambakkam and Ananganallore Village, Gudiyatham Taluk, Vellore District, Tamil Nadu.

The District Collector, Vellore has directed the applicant vide his precise area communication letter **Rc.No.37/Mines/2021; dated 12.01.2022** to get approved Mining plan and Environmental Clearance from the state Environmental Impact Assessment Authority (SEIAA) for grant of Sand Quarry in Palar river over on extent of S.F. No.1 (P) & 213 (P), Kuthambakkam and Ananganallore Village, Gudiyatham Taluk, Vellore District, Tamil Nadu for a period of One Year.

The mining plan is prepared as per the District Collector's precise area communication letter **Rc.No.37/Mines/2021; dated 12.01.2022** under Rule 41& 42 of Tamil Nadu Minor Minerals Concession Rules, 1959 for quarrying Sand with due consideration of environmental parameters so as to obtain Environmental clearance (EC) from EIA Authority (SEIAA/DEIAA), as per the EIA Notification, 2006 and its amendments. The mining plan is approved by Assistant Director, Department of Geology and Mining, Vellore vide letter Rc.No.37/Mines/2021; dated 23.05.2022. The project cost is about Rs 45.0 lakhs and EMP cost is Rs 6.0 lakhs.

As per the Environmental Impact Assessment (EIA) Notification dated 14<sup>th</sup> September 2006 and its amendments, the project falls under 1(a) Mining of minerals, Category – B1 in view of lease area >5 and <100 Ha. Hence, it is necessary to obtain Terms of Reference from State Environmental Impact Assessment Authority (SEIAA) to carry out EIA studies for the proposed project. The EIA report will be prepared by conducting all the studies mentioned by SEAC/SEIAA in ToR with effective appropriate EMP for conducting Public Hearing by TNPCB, Vellore and obtaining EC from SEIAA, TN.

Open cast mechanized mining will be adopted to extract sand size from the area for which lease applied for. Before opening a mine, several aspects should be considered like construction of semi-permanent structures.

Geological reserves are estimated at **351618m<sup>3</sup>** up to **3m** depth below Theoretical bed level including shoal average height of shoal is **0.005m**) and mineable reserve is estimated as **117618m<sup>3</sup>** up to 1m below theoretical bed level including shoal (average height of shoal is **0.005m**). Shoal is calculated as **618 m<sup>3</sup>**.



**Table No: 1.1. Salient features of the proposed project**

FEATURE	DETAILS
<b>Project and Proponent details</b>	
Name of the Proponent and address	<b>THE EXECUTIVE ENGINEER</b> Water Resource Department, Mining and Monitoring Division, Chennai, Tamil Nadu.
Existing/New Quarry	New
Classification of the area (Ryotwari/Poramboke/Others)	The proposed site is located in River basin of a Poramboke land.
Ownership /occupancy of the Applied area (Surface Rights )	<b>THE EXECUTIVE ENGINEER</b>
Category	B <sub>1</sub>
Type of Project	Sand Quarry
Site Location	Kuthambakkam and Ananganallore Village, Gudiyatham Taluk, Vellore District, Tamil Nadu
Period of Lease	One year
<b>Mining Details</b>	
Method of Mining	Open cast and mechanized,
Mining lease area	11.70.0 Ha
Geological Resources	351618m <sup>3</sup> which includes shoal of 618 m <sup>3</sup> (Avg Height 0.005m)
Mineable Reserves	117618m <sup>3</sup> which includes Shoal (Avg. height 0.005m)
Production	117618 m <sup>3</sup> per annum which includes shoal of 618 m <sup>3</sup> (Shoal with an Average thickness of 0.005m)
Depth of Mining	1m below the theoretical bed level
Water Table	Water table is located at a depth of 5-6m bgl.
Existing Pit Dimension	Nil
Proposed bench height & Width	Nil
<b>Machineries</b>	
Types of Machineries used in the quarry	Hydraulic Excavator (0.9 m <sup>3</sup> capacity) – 3 Nos Tipper (15M.T capacity) – 20 Nos
<b>Blasting Pattern and Explosive</b>	
No blast is proposed	



<b>Approvals</b>	
Mining plan approval	Rc.No.37/Mines/2021; dated 23.05.2022
Precise area Communication Letter	Rc.No.37/Mines/2021; dated 12.01.2022
<b>General conditions</b>	
Does it attract any general conditions specified in the EIA notification, 2006?	<p><b>1. Forest (Conservation) Act 1980:</b> The area does not attract the Forest (Conservation) Act 1980.</p> <ol style="list-style-type: none"> <li>1. Pallalakuppam Extension Reserve Forest – 5.9km - W</li> <li>2. Pallikonda Reserve Forest – 6km – SE</li> <li>3. Sanankuppam Reserve Forest – 6.5km - SW</li> <li>4. Paravamalai Reserve Forest – 7.3 – SE</li> <li>5. Kallapadi Reserve Forest – 14.7km – N</li> <li>6. Raddanaickanur &amp; Charakkal Reserve Forest – 19.5km – W</li> <li>7. Ambur Reserve Forest – 18km - SW</li> <li>8. Gundalapalli Reserve forest is - 15.5Km-North West</li> <li>9. Vellore Reserve Forest – 24.89 – North East</li> <li>10. kannamangalam reserve forest – 29.9 km - South East</li> </ol> <p><b>2. Wild Life (Protection) Act, 1972:</b> There is no wild animal sanctuary within 10 km radius from the project site under the Wildlife (Protection) Act, 1972.</p> <ol style="list-style-type: none"> <li>1. Koundinaya wildlife sanctuary-23.5Km- North West</li> </ol> <p><b>3. Coastal Zone:</b> The proposed quarry is located 143.5 km away from Bay of Bengal on southeast side. Hence, the project doesn't attract the C.R.Z. Notification, 2011.</p>
Defence installations	Nil within 10 km
Archaeological features	Nil within 10 km
Ecological sensitive zones	Nil within 10 km
Interstate Boundary	Tamil Nadu and Andhra Pradesh Interstate boundary is located at 14.8 km on North Direction
Nearest streams/ rivers/ water bodies	The site itself is a river bed.
Seismic zone	Zone-II, Low damage risk zone as per BMTPC,

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	Vulnerability atlas Seismic zone of India IS: 1893-2002.
<b>Requirement (Water and Man power)</b>	
Man Power	30 Persons
Water requirement	Total water requirement – 5 KLD Drinking and Utilities 2 KLD, Dust suppression & Green Belt 3 KLD. Source: Mineral water suppliers and Open well under WRO
EMP Cost	Rs. 6.0 Lakhs
Project Cost	Rs. 45.0 lakhs
<b>Infrastructure facilities</b>	
Nearest village	Ananganallore – 0.11 km - NW
PMHC	Kuthambakkam – 1 km - SW
Nearest Town	Gudiyatham– 5.6km -N
Nearest Railway station	Melalathur Railway Station – 2.8 km- N
Nearest Airport	Chennai airport – 139km- E
<b>Climatic Conditions</b>	
Climatic condition	Hottest month – May (31.2 °C avg) Coldest Month - December (22.5 °C avg) Windiest Month - July (10.6 miles per hour avg) Annual Precipitation – 795mm (per year)
<b>Survey details</b>	
Survey number	1 (P) & 213 (P)
Geographical features	The area applied for mining lease is a River Bed, with elevation varies from 264.25m (Minimum) to 266.75 (Maximum) above MSL. It is represented in the Geological Survey of India 57L/13. The applied Lease area lies between Latitude of N12°53'25.36" to N12°53'34.90" and Longitude of E78°52'22.78" to E78°52'52.13".

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Land use pattern	S.No.	Description	Area of Land Use (In Hec.)	
			As at Present	At the end of One Year
			1	Mining
2	Waste Dump	0.00	0.00.0	
3	Safety zone & Plantation	Nil	Nil	
4	Undisturbed area	11.70.0	0.00	
		<b>Total</b>	<b>11.70.0</b>	<b>11.70.0</b>

*Signature*