

**C.ARASUR SAND QUARRY PROJECT FOR RESTORING THE FUNCTIONAL EFFICIENCY OF THE COLEROON RIVER TO OVER AN EXTENT OF 10.00.0Ha**

The proponent Executive Engineer has applied for Terms of Reference (ToR) to obtain Prior Environmental Clearance for the proposed quarry for *C.Arasur Sand Quarry Project for Restoring the Functional Efficiency of the Coleroon River over an Extent of 10.00.0Ha of Government land in S.F.No. 118/2 (P) of Coleroon River in C.Arasur Village, Kattumannar kovil Taluk, Cuddalore District, Tamil Nadu State.*

**Salient features of the proposal are as follows:**

S.No:	Details of the proposal	:	Data furnished	Page No:								
1.	Name of the Owner + Firm	:	The Executive Engineer, Water Resources Department, Mining and Monitoring Division, Viluppuram District, Tamil Nadu State – 605 602. Phone No: 97902 40626 and 93450 08479	8,26,36,101,138								
2.	Location of the quarry-S.F.No.	:	S.F.No. 118/2 (P) C.Arasur Village, Kattumannarkovil Taluk, Cuddalore District, Tamil Nadu State	8,25,32,95,102,138								
3.	Purpose of Application	:	Sand Quarry Project for Restoring the Functional Efficiency of the Coleroon River in C.Arasur Village	7,25,31,95,99,138								
4.	Extent of quarry in Ha-	:	<b>Area: 10.00.0Ha</b>	7,25,31,99,138								
5.	Land use planning a) Mining b) Storage of Topsoil over burden c) Infrastructure Road d) Utilized Area Total	Nil Nil Nil 10.00.0Ha 10.00.0Ha		33								
6.	<p><b><u>Production (quantity in m<sup>3</sup>)</u></b></p> <ul style="list-style-type: none"> <li>➤ Sand - 2,00,000m<sup>3</sup> ie.,33,333Lorry Loads</li> <li>➤ Proposed depth - 2m (1m Above Bed Level + 1m Below Bed Level)</li> <li>➤ Lease Period - One year</li> </ul> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Description</th> <th>Sand (m<sup>3</sup>)</th> </tr> </thead> <tbody> <tr> <td>Geological Resources</td> <td>3,00,000</td> </tr> <tr> <td>Available Mineable reserves</td> <td>2,00,000</td> </tr> <tr> <td>Proposed Quantity As in the approved mining plan</td> <td>2,00,000</td> </tr> </tbody> </table>			Description	Sand (m <sup>3</sup> )	Geological Resources	3,00,000	Available Mineable reserves	2,00,000	Proposed Quantity As in the approved mining plan	2,00,000	7,25,32,99,121
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Proposed Quantity As in the approved mining plan	2,00,000											
7.	Top soil & overburden (quantity in m <sup>3</sup> )	:	There is no overburden.	122,122								
8.	Method of Mining	:	It is an opencast method of conventional mechanized quarrying operation without drilling and blasting.	11,33,120,								



9.	Life of Mine as per approved mining plan	:	Available Mineable reserves = 2,00,000m <sup>3</sup> Average production = 2,00,000m <sup>3</sup> life of mine = 2,00,000m <sup>3</sup> / 2,00,000m <sup>3</sup> = 1 year	33,99,101
10.	Height / width of the bench	:	2m (Average) of Sand	120,
11.	Source of water / quantity required	Quantity required (in litres) / Source Total 2.1KLD		13,60
	a. Drinking & Domestic Purpose	0.6KLD - From Approved water vendors		
	b. Dust Suppression	0.8KLD- From nearby Open well		
	c. Green belt development	0.7KLD- From nearby Open well		
12.	Waste water Sewage water Mode of disposal	:	There is no waste water. The septic tank is constructed on semi - permanent structure with in the quarry lease area. To local Panchyat Authority	15,18,60
13.	APC Measures	:	1. Water sprinkling 2. Enclosed covered system. (Tarpaulin) for transportation.	
14.	Ariel distance of nearest habitation	:	Nearest habitation – 660m-NW	22,28,34
15.	Ariel distance from Reserve forest, Sensitive areas, Forest, Bird sanctuaries, Wild life sanctuaries, National parks, Monuments etc., within 10km	:	<ul style="list-style-type: none"> <li>➤ Mangrove Forest – 20.5km-NE</li> <li>➤ Pichavaram Extension R.F – 22.0km-NE</li> <li>➤ Pichavaram R.F – 23.4km-NE</li> <li>➤ Vaduvor Bird Sanctuary – 70.5km – SW</li> <li>➤ Karaivetti Bird Sanctuary – 70.7km – SW</li> <li>➤ Cauvery wildlife Sanctuary – 220.1km – NW</li> </ul>	21,27,34,
16.	Land owner ship document Own patta land Lease Govt. Poramboke	:	<b><u>Land Details:</u></b> ➤ It is a Government land (River Poramboke) maintained by Water Resources Department, Viluppuram District. (Refer Annexure No. IV and V).	31,32,102,138
17.	Land use classification	:	It is a Government land (River Poramboke)	102,138
18.	Mining plan Prepared by	:	Dr.M.Ifthikhar Ahmed, M.Sc., F.G.S, M.B.A., Ph.D., Recognized Qualified Person RQP/MAS/183/2004/A ( <b><i>Enclosed Annexure No. VII.</i></b> )	137,159
19.	Precise area statement Approved by	:	The precise area communication letter was received from the District Collector, Cuddalore District vide <b><i>Rc.No. 173/Mines/2021, Dated: 10.02.2022</i></b> (Enclosed Annexure No. I).	138
20.	Approved by	:	The Mining plan was approved by the Assistant Director, Department of Geology and Mining, Cuddalore vide <b><i>Rc.No. 173/Mines/2021 Dated: 11.05.2022</i></b> ( <b><i>Enclosed Annexure No. VIII.</i></b> )	167



21.	Nearby quarries	:	There is no other quarry located within the radius of 500m from the proposed project site. Details – Existing Quarry – Nil Expired /abandoned Quarry – Nil Proposed Quarry – 1No (10.00.0Ha) The total extent of the proposed quarry within the radius of 500m is 10.00.0Ha. <b>The Project area falls under the cluster situation.</b> The quarry details letter issued by Assistant Director, Department of Geology and Mining, Cuddalore vide <b>Rc.No. 173/Mines/2021 Dated: 11.05.2022 (Enclosed Annexure No. IX).</b>	169																		
22.	Nearby lake / river/ odai / channel etc.	:	<b><u>Water bodies:</u></b> ➤ The applied area is located in Coleroon River ➤ Odai – 470m- NW ➤ Stream – 900m – NE ➤ Canal – 2.5km - SE ➤ Uppanar River – 3.7km – SE ➤ Elanthoppu Dam – 3.7km – SE ➤ Channal – 4.0km -W ➤ Vaikkal – 4.3km -SE ➤ Veeranam Lake – 11.5km – NW ➤ CRZ – 21.0km - NE	21,27,33,55																		
23.	Latitude / Longitude	:	Latitude between: 11°15'18.1038"N to 11°15'34.7541"N Longitude between: 79°38'45.7852"E to 79°38'53.3996"E Boundary Co-Ordinates (Plate No.II) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>S.No</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>11°15'34.7541"N</td> <td>79°38'46.8177"E</td> </tr> <tr> <td>2</td> <td>11°15'34.3464"N</td> <td>79°38'53.3996"E</td> </tr> <tr> <td>3</td> <td>11°15'18.1038"N</td> <td>79°38'52.3670"E</td> </tr> <tr> <td>4</td> <td>11°15'18.5115"N</td> <td>79°38'45.7852"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	11°15'34.7541"N	79°38'46.8177"E	2	11°15'34.3464"N	79°38'53.3996"E	3	11°15'18.1038"N	79°38'52.3670"E	4	11°15'18.5115"N	79°38'45.7852"E	Datum: UTM-WGS84, Zone 44 North			7,25,32,164
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24.	Topo Sheet No.	:	Topo sheet No: 58-M/ 11	7,25,160																		
25.	Total Project cost (Operational Cost + EMP cost)	:	<b><u>The Project cost:</u></b> A. Project cost = Rs. 37,73,000/- B. EMP cost = Rs. 1,10,000/- Total Project Cost (A+B) = Rs. 38,83,000/-	61,132																		
26.	EMP cost	:	The total EMP cost is around <b>Rs. 1,10,000/-</b>	61,132																		
27.	Water table	:	Ground water is about 14m depth below ground level.	34,123																		
28.	Interstate boundary	:	Union Territory – 30.1km- SE Andhra Pradesh Interstate boundary – 198.8km-NW	21,28,55																		
29.	Western Ghats	:	The project area does not fall in Western Ghats region.	-																		