

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-	:	Area: 10.00.0Ha	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><u>Production (quantity in m³)</u></p> <ul style="list-style-type: none"> ➤ Sand - 2,00,000m³ ie.,33,333Lorry Loads ➤ Proposed depth - 2m (1m Above Bed Level + 1m Below Bed Level) ➤ Lease Period - One year <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Description</th> <th>Sand (m³)</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 ³)	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 ³)	:	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 ³ Average production = 2,00,000m ³ life of mine = 2,00,000m ³ / 2,00,000m ³ = 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"> ➤ Mangrove Forest – 20.5km-NE ➤ Pichavaram Extension R.F – 22.0km-NE ➤ Pichavaram R.F – 23.4km-NE ➤ Vaduvor Bird Sanctuary – 70.5km – SW ➤ Karaivetti Bird Sanctuary – 70.7km – SW ➤ Cauvery wildlife Sanctuary – 220.1km – NW 	21,27,34,
16.	Land owner ship document Own patta land Lease Govt. Poramboke	:	<u>Land Details:</u> ➤ 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 (<i>Enclosed Annexure No. VII.</i>)	137,159
19.	Precise area statement Approved by	:	The precise area communication letter was received from the District Collector, Cuddalore District vide <i>Rc.No. 173/Mines/2021, Dated: 10.02.2022</i> (Enclosed Annexure No. I).	138
20.	Approved by	:	The Mining plan was approved by the Assistant Director, Department of Geology and Mining, Cuddalore vide <i>Rc.No. 173/Mines/2021 Dated: 11.05.2022</i> (<i>Enclosed Annexure No. VIII.</i>)	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. The Project area falls under the cluster situation. The quarry details letter issued by Assistant Director, Department of Geology and Mining, Cuddalore vide Rc.No. 173/Mines/2021 Dated: 11.05.2022 (Enclosed Annexure No. IX).	169																		
22.	Nearby lake / river/ odai / channel etc.	:	<u>Water bodies:</u> ➤ 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)	:	<u>The Project cost:</u> 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 Rs. 1,10,000/-	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.	-																		

