

Form~ 1
(As per EIA Notification 2006)

**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,
C.Arasur Village, Kattumannarkovil Taluk,
Cuddalore District, Tamil Nadu State.**

PROJECT PROPONENT

The Executive Engineer,
Water Resources Department,
Mining and Monitoring Division,
Viluppuram District,
Tamil Nadu State – 605 602.

**APPLICATION FORM FOR OBTAINING ENVIRONMENTAL CLEARANCE
FROM
STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA),
GOVERNMENT OF TAMIL NADU, CHENNAI**

APPENDIX – I
(See Paragraph -6)
FORM 1

(I) BASIC INFORMATION

| S. No | Item | Details | | | | | | | | | | | | | | | |
|-------|--|--|------|----------|-----------|---|-----------------|-----------------|---|-----------------|-----------------|---|-----------------|-----------------|---|-----------------|-----------------|
| 1 | Name of the project/s | <i>C.Arasur Sand Quarry Project for Restoring the Functional Efficiency of the Coleroon River</i> | | | | | | | | | | | | | | | |
| 2 | S.No. in the schedule | 1 (a) | | | | | | | | | | | | | | | |
| 3 | Proposed capacity/area/length/ tonnage to be handled / command area/lease area/number of wells to be drilled | <p><u>Production Capacity</u> The proposed quantity of reserves (level of production) to be mine 2,00,000m³ of Sand up to depth 2m (1m Above Bed Level + 1m Below Bed Level) Average for a period of one year.</p> <p><u>Applied mining Area</u> 10.00.0Ha</p> <p>The lease applied area exhibits undulated topography, having gentle slope towards North side. The altitude of the area between 4.86m to 8.17m above from MSL and the River bed level is 5.9m above from MSL. The sand is derived by erosion of weathered rocks and Mineral particles and transported by the river water and deposited on the floor of the river in the interface.</p> | | | | | | | | | | | | | | | |
| 4 | New/Expansion/ Modernization | New Proposal for Environmental Clearance. | | | | | | | | | | | | | | | |
| 5 | Existing capacity/Area etc. | New Proposal for Environmental Clearance. | | | | | | | | | | | | | | | |
| 6 | Category of project i.e. 'A' or 'B' | Category - B1 | | | | | | | | | | | | | | | |
| 7 | Does it attract the general condition? If yes, please specify. | The project does not attract the general condition. | | | | | | | | | | | | | | | |
| 8 | Does it attract the specific condition? If yes, please specify. | The project does not attract specific condition. | | | | | | | | | | | | | | | |
| 9 | Location | <p>The Sand quarry project is situated at S.F.No. 118/2 (P) of Coleroon River in C.Arasur Village, Kattumannarkovil Taluk, Cuddalore District, Tamil Nadu State,</p> <p>Topo sheet No : 58-M/ 11</p> <p>Latitude between: 11°15'18.1038"N to 11°15'34.7541"N</p> <p>Longitude between: 79°38'45.7852"E to 79°38'53.3996"E</p> <p>Boundary Co-Ordinates (Plate No.II)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <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> </tbody> </table> <p style="text-align: center;">Datum: UTM-WGS84, Zone 44 North</p> | 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 |
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| | | |
|----|--|---|
| | Plot/ Survey/ Khasra No. | S.F.No: 118/2 (P) |
| | Village | C.Arasur |
| | Taluk | Kattumannarkovil |
| | District | Cuddalore |
| | State | Tamil Nadu |
| 10 | Nearest railway station/ airport along with distance in kms | Sirkazhi Railway station - 10.0km - SE Puducherry Airport - 78.0km - NE |
| 11 | Nearest Town, city, District Headquarters along with distance in kms. | Nearest Town : Sirkazhi -10.0km - SE Nearest City : Cuddalore - 56.0km – NE Nearest District: Cuddalore - 56.0km – NE |
| 12 | Village Panchayats, ZilaParis had, Municipal Corporation, Local body (Complete postal addresses with telephone nos. to be given) | Village - C.Arasur Panchyat Union - Kattumannarkovil Taluk - Kattumannarkovil District - Cuddalore |
| 13 | Name of the applicant | The Executive Engineer |
| 14 | Registered Address | Water Resources Department, Mining and Monitoring Division, Viluppuram District, Tamil Nadu State |
| 15 | Address for correspondence | |
| | Name | The Executive Engineer |
| | Designation (Owner/Partner/CEO) | Proprietor |
| | Address | The Executive Engineer, Water Resources Department, Mining and Monitoring Division, Viluppuram District, Tamil Nadu State |
| | Pin code | 605 602 |
| | E-mail | eePWDminingvpm@gmail.com |
| | Mobile No. Aadhaar Number | 97902 40626 and 93450 08479 |
| | Fax No. | - |
| 16 | Details of Alternative Sites examined, if any. Location of these sites should be shown on a Topo sheet | Not Applicable. This is a site specific project. |
| 17 | Interlinked Projects | There is no interlinked projects |
| 18 | Whether separate application of interlinked project has been submitted? | As there is no interlinked project, no application has been submitted |
| 19 | If yes, date of submission | Not Applicable |



| | | |
|----|--|---|
| 20 | If no, reason | Not applicable |
| 21 | <p>Whether the proposal involves approval/ clearance under: if yes, details of the same and their status to be given.</p> <p>(a) The Forest (Conservation) Act, 1980? (b) The Wildlife (Protection) Act, 1972? (c) The C. R. Z. Notification, 1991?</p> | <p>No forest land involved.</p> <p>(a) The Project does not attract the Forest (Conservation) Act 1980.</p> <p>(b) There is no Wild life in the project site area under the Wildlife (protection) Act 1972.</p> <p>(C) The Project area does not fall the C.R.Z Notification, 1991.</p> |
| 22 | Whether there is any Government Order/ Policy relevant/ relating to the site? | <p>The precise area communication letter was received from the District Collector, Cuddalore District vide Rc.No. Rc.No. 173/Mines/2021, Dated: 10.02.2022 (Enclosed Annexure No. I).</p> <p>The Mining plan was approved by the Assistant Director, Department of Geology and Mining, Cuddalore vide Rc.No. 173/Mines/2021 Dated: 11.05.2022 (Enclosed Annexure No. VIII).</p> |
| 23 | Forest land involved (hectares) | No, there is no forest land involved in the project area. |
| 24 | <p>Whether there is any litigation pending against the project and/ or land in which the project is propose to be set up?</p> <p>(a) Name of the Court (b) Case No. (c) Orders/ directions of the Court, if any and its relevance with the proposed project.</p> | There is no court case pending, litigations relating to the project directly and indirectly. |



(II)Activity

1. Construction operation or decommissioning of the project involving actions, which will cause physical changes in the locality (topography, land use changes in water bodies, etc.)

| S.No | Information/ Checklist Confirmation | Yes/ No | Details thereof (with approximate quantities/rates, wherever possible) with sources of information data |
|------|---|---------|--|
| 1.1 | Permanent or temporary change in land use, land cover or topography including increase in intensity of land use (with respect to local land use plan) | Yes | The lease applied area is exhibits undulated topography. The topography will be changed after the quarrying of sand as per the Mining plan. It is an Open cast Mechanized Mining with 2.0meter bench height Sand formation is seen right from the surface up to a depth of 2m (1m Above Bed Level + 1m Below Bed Level) Average . The sand is derived by erosion of weathered rocks and Mineral particles and transported by the river water and deposited on the floor of the reservoir in the interface. |
| 1.2 | Clearance of existing land, vegetation and building? | No | There is no vegetation and building in this project area, hence there is no requirement of clearing the vegetation and building. |
| 1.3 | Creation of new land uses? | No | The applied area is located in Coleroon River and it was tributary of Cauvery River. Hence, there is no proposal for creating of new land uses. |
| 1.4 | Pre-construction investigations e.g. bore houses, soil testing? | No | Not Applicable |
| 1.5 | Construction works? | No | The remove of sand in Coleroon River, there is no construction work is involved. |
| 1.6 | Demolition works? | No | Not Applicable |
| 1.7 | Temporary sites used for construction works or housing of construction workers? | No | Not Applicable |
| 1.8 | Above ground buildings, structures or Gravel and Pebbles works including linear structures, cut and fill or excavations. | No | Not Applicable |
| 1.9 | Underground works including mining or tunneling? | No | Not Applicable |

| | | | |
|-------------|--|-----|--|
| 1.10 | Reclamation works? | No | The sand restricted up to a depth of 2m (1m Above Bed Level + 1m Below Bed Level) . The main objective of this project is to remove the sand and restore its original capacity of functional efficiency of the river. After completion of quarry operation the quarried out pit leveled by naturally during rainy season. There is no waste hence, no proposal for backfilling or reclamation |
| 1.11 | Dredging? | No | Not Applicable |
| 1.12 | Offshore structures? | No | Not Applicable |
| 1.13 | Production and manufacturing processes? | Yes | Opencast method of shallow mining is proposed by Excavator for mining of mineral. The salient features of mining method are:- ➤ It's a conventional Eco-Friendly quarrying proposed without drilling and blasting. ➤ Transportation of the mineral from mine to stacked in the nearby approved Government sand depot for sale to the needy customers. |
| 1.14 | Facilities for storage of goods or materials? | No | No, the mineral from mine to stacked in the nearby approved Government sand depot for sale to the needy customers. |
| 1.15 | Facilities for treatment or disposal of solid waste or liquid effluents? | No | There is no wastage encountered during the quarrying operation. The sand will not produce toxic effluence in the form of solid, liquid or gas. |
| 1.16 | Facilities for long term housing of operational workers? | No | Mostly local persons will be employed. |
| 1.17 | New road, rail or sea traffic during construction or operation? | Yes | There will be sand transportation traffic from mine to the buyer's location. |
| 1.18 | New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc.? | No | There is no such type of activities involved in this project. |
| 1.19 | Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements? | No | Not proposed |

| | | | |
|-------------|---|-----|--|
| 1.20 | New or diverted transmission lines or pipelines? | No | Not Applicable |
| 1.21 | Impoundment, damming, culver ting, realignment or other changes to the hydrology of watercourses or aquifers? | No | Not Applicable |
| 1.22 | Stream crossings? | No | The project area lies in Coleroon river. |
| 1.23 | Abstraction or transfers of water form ground or surface waters? | No | The proposed area does not require any abstraction or transfer of water from the ground or surface water bodies. |
| 1.24 | Changes in water bodies or the land surface affecting drainage or run-off? | No | There is no change in water bodies or the land surface affected during run off. |
| 1.25 | Transport of personnel or materials for construction, operational or decommissioning? | Yes | Transportation of the mineral from mine to stacked in the nearby approved Government sand depot for sale to the needy customers. |
| 1.26 | Long-term dismantling or decommissioning or restoration works? | No | No Dismantling or decommissioning is proposed in this project. |
| 1.27 | Ongoing activity during decommissioning which could have an impact on the environment? | No | Not Applicable |
| 1.28 | Influx of people to an area in either temporarily or permanently? | No | Employment will be given to people of nearby areas, no influx will take place. |
| 1.29 | Introduction of alien species? | No | Not Applicable |
| 1.30 | Loss of native species or genetic diversity? | No | There will no loss of native species or genetic diversity taken during this operation, since the project area is devoid of vegetation and agriculture. |
| 1.31 | Any other actions? | No | Not Applicable |



2.0 Use of Natural resources for construction or operation of the project (Such as land, water, materials or energy, especially any resources which are non – renewable or in short supply):

| S.No | Information/ Checklist Confirmation | Yes/ No | Details thereof (with approximate quantities/rates, wherever possible) with sources of information data | | | | | | | | |
|------------------|--|---------|--|------------------|--------|------------------|--------|------------|--------|--------------|---------------|
| 2.1 | Land especially undeveloped or agricultural land (ha) | No | The lease applied area is 10.00.0Ha; It is a Government land (River Poramboke) maintained by Water Resources Department, Viluppuram District. (Refer Annexure No. IV and V). | | | | | | | | |
| 2.2 | Water (expected source & competing users) unit: KLD | Yes | <p>Detail of water requirements in 2.1KLD as given below:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Dust Suppression</td> <td>0.6KLD</td> </tr> <tr> <td>Drinking Purpose</td> <td>0.8KLD</td> </tr> <tr> <td>Green Belt</td> <td>0.7KLD</td> </tr> <tr> <td>Total</td> <td>2.1KLD</td> </tr> </table> <p>Drinking water source from nearby Approved water vendors and dust suppression source from nearby open well.</p> | Dust Suppression | 0.6KLD | Drinking Purpose | 0.8KLD | Green Belt | 0.7KLD | Total | 2.1KLD |
| Dust Suppression | 0.6KLD | | | | | | | | | | |
| Drinking Purpose | 0.8KLD | | | | | | | | | | |
| Green Belt | 0.7KLD | | | | | | | | | | |
| Total | 2.1KLD | | | | | | | | | | |
| 2.3 | Minerals (MT) | Yes | The proposed quantity of reserves (level of production) to be mine 2,00,000m ³ of Sand up to depth 2m (1m Above Bed Level + 1m Below Bed Level) Average for a period of one year. | | | | | | | | |
| 2.4 | Construction material - Stone, aggregates, and/Soil (expected source-MT) | No | No construction is proposed | | | | | | | | |
| 2.5 | Forests and timber (source-MT) | No | Not Applicable | | | | | | | | |
| 2.6 | Energy including electricity and fuels (source, competing users) unit: fuel (MT),Energy (MW) | Yes | Mainly diesel will be used to operate mine machinery and Vehicle. The average diesel requirement will be 33,330Liters per hour of HSD. No electricity is required for quarrying operation. | | | | | | | | |
| 2.7 | Any other natural resources (use appropriate standard units) | No | Not Applicable | | | | | | | | |



3.0 Use, storage, transport, handling or production of substances or materials, which could be harmful to human health or the environment or raise concerns about actual or perceived risks to human health.

| S.No | Information/ Checklist Confirmation | Yes/ No | Details thereof (with approximate quantities/rates, wherever possible) with sources of information data |
|-------------|--|----------------|--|
| 3.1 | Use of substances or materials, which are hazardous (as per MSIHC rules) to human health or the environment (flora, fauna, and water supplies) | No | There is no proposal for storage, handling or transportation of any hazardous materials or substances as per MSIHC rules in this sand Quarry project. |
| 3.2 | Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases) | No | There is no envisaged |
| 3.3 | Affect the welfare of people e.g. by changing living conditions? | Yes | The local people will benefit by way of direct and indirect employment opportunities. Also, mine management will carry out social welfare activities in the nearby villages. |
| 3.4 | Vulnerable groups of people who could be affected by the project e.g. hospital patients, children's, the elderly etc., | No | There is no effect envisaged for the vulnerable groups of people who could be affected by the project. |
| 3.5 | Any other causes | No | There is no other cause are envisaged |



**4.0 Production of solid wastes during construction or operation or decommissioning
MT/months)**

| S. No | Information/ Checklist Confirmation | Yes/ No | Details thereof (with approximate quantities/rates, wherever possible) with sources of information data |
|--------------|--|----------------|---|
| 4.1 | Spoil, overburden or mine wastes | No | The quarrying operation does not produce any waste. The entire sand is excavated. There are no wastages encountered during the project period of one year only. |
| 4.2 | Municipal waste (domestic and or commercial wastes) | Yes | Small quantity of Municipal waste will be generated which shall be disposed as per guidelines. |
| 4.3 | Hazardous wastes (as per Hazardous Waste Management Rules) | No | No hazardous waste will be generated in the mine. No workshop is proposed in the mining area. |
| 4.4 | Other industrial process wastes | No | Not Applicable |
| 4.5 | Surplus product | No | Not Applicable |
| 4.6 | Sewage sludge or other sludge form effluent treatment | No | Domestic effluent will be discharged in septic tank and soak pit system. There is no process effluent generation in the mine. |
| 4.7 | Construction or demolition wastes | No | Not Applicable |
| 4.8 | Redundant machinery or equipment | No | Not Applicable |
| 4.9 | Contaminated soils or other materials | No | Not Applicable |
| 4.10 | Agricultural wastes | No | There is no agricultural waste anticipated. |
| 4.11 | Other solid wastes | No | There is no other solid waste anticipated. |



5.0 Release of pollutants or any hazardous, toxic or noxious substances to air (Kg/hr)

| S.No | Information/ Checklist Confirmation | Yes/ No | Details thereof (with approximate quantities/rates, wherever possible) with sources of information data |
|------|---|---------|--|
| 5.1 | Emissions form combustion of fossil fuels from stationary or mobile sources | Yes | Negligible emissions of SO ₂ & NO ₂ will be there due to use of diesel operated machinery. Vehicular emissions will be kept under control by proper maintenance. |
| 5.2 | Emissions from production processes | Yes | Dust is the main pollutant, which will be generated mainly from mining activities and vehicle movement. Following measures will be adopted to control dust: Dust Control Measures <ul style="list-style-type: none"> ➤ Water sprinkling on haul roads ➤ Limiting the speed of the vehicles ➤ Regular maintenance of vehicles/ equipment's ➤ Covered transportation of sand. |
| 5.3 | Emissions from materials handing including storage or transport | Yes | Fugitive dust will be generated from material handling activities. Dust suppression by water sprinkling will be provided to prevent the fugitive dust emissions during loading. Tarpaulin covers will be covered in vehicles during transportation. |
| 5.4 | Emissions form construction activities including plant and equipment | No | There is no major construction activities are envisaged. |
| 5.5 | Dust or odors form handling of materials including construction materials, sewage and waste | Yes | There is no odor from handling of material. Only dust will be generated from transportation & handling materials. The dust emission will be controlled by adopting suitable measures viz. water sprinkling, plantation, making enclosures & maintaining roads. |
| 5.6 | Emissions from incineration of waste | No | Not Applicable. |
| 5.7 | Emissions from burning of waste in open air (e.g. slash materials, construction debris) | No | Not Applicable |
| 5.8 | Emissions from any other sources | No | Not Applicable |



6.0 Generation of Noise and Vibration, and Emissions of Light and Heat:

| S. No | Information/ Checklist Confirmation | Yes/ No | Details thereof (with approximate quantities/rates, wherever possible) with sources of information data |
|-------|---|---------|---|
| 6.1 | From operation of equipment e.g. engines, ventilation plant, crushers | Yes | <p>Due to operation of machinery there is likely hood of some increase in noise level. The noise level at site will be maintained below permissible limit. Measures like lubrication and preventive maintenance shall be taken to control noise from the machinery.</p> <p>Mitigation Measures:-</p> <p>The following measures will be adopted to control the noise and vibration:</p> <ul style="list-style-type: none"> ➤ Proper and regular maintenance of machinery. ➤ Earmuffs and earplugs will be provided to the persons exposed to noise levels. ➤ Periodical medical checkup will be conducted. ➤ Mining will be conducted during day time only. |
| 6.2 | From industrial or similar processes | No | Not Applicable |
| 6.3 | From construction or demolition | No | Not Applicable |
| 6.4 | From blasting or piling | No | No drilling or blasting is proposed in this project. |
| 6.5 | From construction or operational traffic | Yes | The transport of sand through tippers can produce noise but are maintained within permissible limits, by keeping machinery in proper condition as per RTO&TNPCB norms and maintenance under experience and qualified mechanics. |
| 6.6 | From lighting or cooling systems | No | The quarrying operation will be carried out at the daytime only between 7Am to 5Pm hence; the lighting and cooling systems are not required. |
| 6.7 | From any other sources | No | Not Applicable |



7.0 Risks of contamination of land or water from releases of pollutants into the ground or into sewers, surface water, ground water, coastal water or the sea:

| S.No | Information/ Checklist Confirmation | Yes/ No | Details thereof (with approximate quantities/rates, wherever possible) with sources of information data |
|-------------|--|----------------|---|
| 7.1 | From handling, Storage, use or spillage of hazardous materials | No | No hazardous materials will be used in the process. Oiling and lubrication of hauling vehicles will be done by using oil tray to prevent spillage of oil. Vehicles and machinery will be well maintained to prevent leakage of oil. |
| 7.2 | The discharge of sewage will be collected on soak pits will be discharge to a place authorized by municipal authorizes as per guidelines | No | The Discharge of sewage will be collected on soak pits and will be discharge to a place authorized by Municipal Authorities as per guide lines. |
| 7.3 | By deposition of pollutants emitted to air into the land or into water | No | There is likely hood of increase of particulate matter due to quarrying operations. Regular sprinkling of water will suppress dust at points/places of generation. |
| 7.4 | From any other sources | No | Not applicable, as no other sources are involved. |
| 7.5 | Is there a risk of long term buildup of pollutants in the environment from these sources? | No | There is no such type of activities involved in this quarry. |



8.0 Risk of accidents during construction or operation of the project, which could affect human health or the environment

| S. No | Information/ Checklist Confirmation | Yes/ No | Details thereof (with approximate quantities/rates, wherever possible) with sources of information data |
|-------|---|---------|--|
| 8.1 | From explosions, spillages, fires etc., form storage, handling, use or production of hazardous substances | No | <p>No explosions and spillages are proposed for this project. The sand directly excavated with the help of excavator.</p> <p>The quarrying operation does not produced hazardous material.</p> |
| 8.2 | From any other causes | Yes | <p>Limited vehicles are only used for quarrying up to a depth of 2m (1m Above Bed Level + 1m Below Bed Level). Hence the accident is anticipated minimal.</p> <p>However, all safety measures shall be taken to prevent any accidents. The quarry operation will be monitored under the supervision of experienced and qualified competent mines foreman and PWD Engineers.</p> |
| 8.3 | Could the project be affected by natural disasters causing environmental damage (e.g. floods, Earth quakes, landslides, cloudburst etc.)? | No | <p>There is no earthquake, floods, Landslides, cloud burst recorded in the area.</p> <p>It's an opencast mechanized method up to a depth of 2m (1m Above Bed Level + 1m Below Bed Level), which will not cause any adverse environmental damage due to natural disasters.</p> |



9.0 Factors which should be considered (such as consequential development) which could lead to environmental effects or the potential for cumulative impacts with other existing or planned activities in the locality

| S.No | Information/ Checklist Confirmation | Yes/ No | Details thereof (with approximate quantities/rates, wherever possible) with sources of information data |
|-------------|---|----------------|--|
| 9.1 | <p>Lead to development of supporting. cities, ancillary development or development stimulated by the project which could have impact on the environment e.g.:</p> <ul style="list-style-type: none"> • Supporting infrastructure (roads, power supply, waste or waste treatment, etc.) • housing development • extractive industries • supply industries • other | No | <p>Living standard will be improved of the nearby villagers.</p> <p>This short span of project does not require any supporting infrastructures like roads, power supply, waste treatment, etc.,</p> <p>The workers are available from the nearby villages, hence the project will not attract housing Development, Extractive industries, supply industries or any other activities.</p> |
| 9.2 | Lead to after- use of the site, which could heaven impact on environment | No | After completion of quarry operation the quarried out pit leveled by naturally during rainy season. |
| 9.3 | Set a precedent for later developments | No | There is no later developments |
| 9.4 | Have cumulative effects due to proximity to other existing or planned projects with similar effects | No | There is no cumulative impacts are envisaged. |



(I) Environmental Sensitivity

| Sl.No. | Areas | Name/ Identity | Aerial distance (within 10km.) Proposed project location boundary |
|--------|--|---|---|
| 1 | Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value | — | None within the 10 km radius. |
| 2 | Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests | <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 ➤ 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 | |
| 3 | Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration | — | None within the 10 km radius. |
| 4 | Inland, coastal, marine or underground waters | <ul style="list-style-type: none"> ➤ The applied area is located in Coleroon River ➤ Uppanar River – 3.7km – SE | |
| 5 | State, National boundaries | Union Territory – 30.1km- SE Andhra Pradesh Interstate boundary – 198.8km-NW | |
| 6 | Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas | ➤ Vaitheeswarankoil – Lower Anaicut Road | 6.0km-S |



| | | | |
|----|---|---|--|
| 7 | Defense installations | — | None within 10 km radius |
| 8 | Densely populated or built-up area | Nearest habitation | 660m-NW |
| 9 | Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities) | ➤ Government Higher Secondary School | 965m-NE |
| | | ➤ Government Higher Secondary School | 3.3km-SE |
| | | ➤ Government Hospital | 3.05km-NW |
| | | ➤ Kunnam Government Hospital | 4.2km-NE |
| | | ➤ Government Arts & Science College Manalmedu | 7.6km-SW |
| | | ➤ Government Arts & Science College | 8.4km-NE |
| | | ➤ Manmadhaeeshvaran Temple | 767m-E |
| | | ➤ Kaliyamman Temple | 885m-E |
| | | | |
| 10 | Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals) | — | None within 10 km radius |
| 11 | Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded) | — | None within 10 km radius |
| 12 | Areas susceptible to natural hazard which could cause the project to present environmental problems (earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions) | — | Zone III, Moderate damage risk zone as per BMTPC, Vulnerability Atlas of Seismic zone of India IS:1893 – 2002.No history of such incidents in the area |

(III) Proposed Terms of Reference for EIA studies

As per EIA Notification 2006, S.O.1533 Dated 14th September 2006; and S.O.3977 (E) dated 14.08.2018, the project is applied under B-2 Category. It is requested that Environmental Clearance may kindly be granted to the project. That however I will comply with all the guidelines as directed by Honorable committee and abide by the same. Post EC compliance will be regularly carried and reports will be submitted to concerned authorities.

Declaration

“I hereby given undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.

Date:

Place: Cuddalore

1. Signature of the proponent with Name and Full Address



The Executive Engineer,
Water Resources Department,
Mining and Monitoring Division,
Viluppuram District,
Tamil Nadu State – 605 602.
Phone No: 97902 40626 and 93450 08479

2. Signature of the Recognized Qualified Person



Dr.M.Ifthikhar Ahmed, M.Sc., F.G.S, M.B.A., Ph.D.,
RQP/MAS/183/2004/A

