

**Form-1** (As per EIA Notification 2006)

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FOR THE PROPOSED

SAND QUARRY PROJECT- **12.00.0Ha** (6.75.0Ha + 5.25.0Ha)

S.F.NOs: **1588 (P) & 463/2 (P)**

*Sakkaramallur and Sathampakkam Village,*

*Arcot & Walajah Taluk,*

*Vellore District, Tamilnadu*

**Proposed by**

**The Executive Engineer,**

*Application Form for Obtaining Environmental Clearance from*

*State Level Environmental Impact Assessment Authority (SEIAA)*

*Tamilnadu*

## FORM -1

### I. BASIC INFORMATION

S.No	Item	Details								
1	Name of the project/s	Sakkaramallur and Sathampakkam Sand Quarry project								
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	The Proposed quantity of reserves is <b>120000m<sup>3</sup></b> of Sand for a period of One year. <b>Area = 12.00.0Ha</b> It is shallow manual open cast quarrying the Sand is clearly visible right from the surface as shoals hence no wells are proposed not drilled.								
4	New/ Expansion/ Modernization	It is a Sand quarry project in Sakkaramallur and Sathampakkam Village								
5	Existing capacity / Area etc.	The Proposed quantity of reserves is <b>120000m<sup>3</sup></b> (or) <b>20000</b> Lorry Loads of Sand up to a depth for <b>1m</b> below the river bed for a period of One year. <table border="1" style="margin: 10px auto; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Description</th> <th style="text-align: center;">Sand in m<sup>3</sup></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Geological Resources</td> <td style="text-align: center;">360000</td> </tr> <tr> <td style="text-align: center;">Available Mineable reserves</td> <td style="text-align: center;">120000</td> </tr> <tr> <td style="text-align: center;">Proposed quantity of reserves</td> <td style="text-align: center;">120000</td> </tr> </tbody> </table>	Description	Sand in m <sup>3</sup>	Geological Resources	360000	Available Mineable reserves	120000	Proposed quantity of reserves	120000
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Geological Resources	360000									
Available Mineable reserves	120000									
Proposed quantity of reserves	120000									
6	Category of project i.e. 'A' or 'B'	Category-B2								
7	Does it attract the general condition? If yes, please specify.	The project does not attract the any general condition.								
8	Does it attract the specific condition? If yes, please specify.	The project does not attract the any specific condition.								
9	Location	Topo Sheet No. 57-P/05 12°52'14.80"N to 12°52'28.70"N 79°24'05.07"E to 79°24'16.26"E								
9	Plot/ Survey/ Khasra No.	1588 (P) & 463/2 (P)								
9	Village	Sakkaramallur and Sathampakkam								
9	Taluk	Arcot & Walajah								
9	District	Vellore								
9	State	Tamilnadu								
10	Nearest railway station/ airport along with distance in kms	Walaja road Railway station - 12km -NW Chennai Airport - 84km- NE								
11	Nearest Town, city, District Headquarters along with distance in kms.	Nearest Town : Walajah - 7km - NW Nearest City : Vellore - 30km -NW District : Vellore - 30km -NW								

12	Village Panchayats, ZilaParis had, Municipal Corporation, Local body (Complete postal addresses with telephone nos. to be given)	Village - Sakkaramallur and Sathampakkam Panchyat union - Arcot & Walajah Taluk - Arcot & Walajah District - Vellore
13	Name of the applicant	The Executive Engineer
14	Registered Address	The Executive Engineer, Public Works Department, Water Resource Department, Upper Palar Basin Division, Vellore District
15	Address for correspondence	
	Name	The Executive Engineer
	Designation (Owner/Partner/CEO)	(Executive Engineer)
	Address	The Executive Engineer, Public Works Department, Water Resource Department, Upper Palar Basin Division, Vellore District
	Pin code	632006
	E-mail	<a href="mailto:eeupperpalar@gmail.com">eeupperpalar@gmail.com</a>
	Telephone No.	0416 -2247375
	Fax No.	-
16	Details of Alternative Sites examined, if any. Location of these sites should be shown on a Topo sheet	There is no alternative site examined. The project is site specific.
17	Interlinked Projects	There is no interlinked project.
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	As there is no interlinked project hence no application has been submitted.
20	If no, reason	The project involved for Sand Quarry only.
21	Whether the proposal involves approval/ clearance under: if yes, details of the same and their status to be given. (a) The Forest (Conservation) Act, 1980? (b) The Wildlife (Protection) Act, 1972? (c) The C. R. Z. Notification, 1991?	(a) The project does not attract the Forest (Conservation) Act 1980. There is no Forest land involved within the quarry lease-applied area. (b) There is no wild life within the 15km radius from applied area and does not fall under the Wildlife (protection) Act 1972. (C) The project doesn't attract the C.R.Z. Notification, 1991.

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, Vellore Vide <b>Rc. No. 419/2016/Mines Dated: 19.12.2016.</b></p> <p>The mining plan was got approved by the Assistant Director, Vellore vide <b>Rc. No. 419/2016/Mines Dated: 05.01.2017.</b></p>
23	Forest land involved (hectares)	There is no forest land involved.
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.

**(I) 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.)**

<b>S. No</b>	<b>Information/Checklist confirmation</b>	<b>Yes/ No</b>	<b>Details thereof (with approximate quantities/rates, wherever possible) with sources of information data</b>
<b>1.1</b>	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 topography will be slightly changed after the quarrying of Sand as per the Mining plan, Sand formation is seen right from the surface up to a depth of <b>1m</b> below the river bed. During Eastern monsoon when the water flows repletion of sand will take place.
<b>1.2</b>	Clearance of existing land, vegetation and building?	No	The quarry lease applied area is devoid of vegetation's, Human settlement and buildings hence clearance is redundant.
<b>1.3</b>	Creation of new land uses?	No	The total quarrying activity is proposed to carry out within the quarry lease applied area. Hence, there is no proposal for creating of new land uses.
<b>1.4</b>	Pre-construction investigations e.g. bore houses, soil testing?	No	The Sand is clearly visible right from the surface hence pre-construction investigation and soil testing is not proposed before quarrying operation.
<b>1.5</b>	Construction works?	No	The area applied for lease is palar river basin. There is no any construction works in around the lease area.
<b>1.6</b>	Demolition works?	No	There are no existing buildings within the quarry lease applied area; hence no demolition work is involved.
<b>1.7</b>	Temporary sites used for construction works or housing of construction workers?	No	The area applied for lease is palar river basin. There is no any construction works in around the lease area.
<b>1.8</b>	Above ground buildings, structures or earth works including linear structures, cut and fill or excavations.	No	There are no tall buildings or linear structure found in and around the quarry site. There is no requirement of cutting and filling in the site. The proposed quarry is to exploit Sand from consolidated sediments for depth of <b>1m</b> below the river bed.
<b>1.9</b>	Underground works including mining or tunneling?	No	Conventional open cast manual quarrying will be adopted. No underground mining or tunneling is proposed.

<b>1.10</b>	Reclamation works?	No	The quarry operation is proposed up to a depth of <b>1m</b> below the river bed, after removing the Sand there is no proposal for backfilling or reclamation. The quarried out land will be facilitate the free flowing of water during rainy season.
<b>1.11</b>	Dredging?	No	There is no such type of activities involved in this opencast quarrying operation.
<b>1.12</b>	Offshore structures?	No	There is no such type of activities involved
<b>1.13</b>	Production and manufacturing processes?	No	No production and manufacturing is involved in the Sand quarrying.
<b>1.14</b>	Facilities for storage of goods or materials?	No	There is no proposal for storage of material within the quarry lease applied area. The excavated sand is transported to the proponent would like to sell out of the entire sand to the nearby district towns and villages. The sand is specifically used for construction purpose besides the Removal of the sand may also called as desilting will increase the functional efficiencies of the river during the flood season because protecting the Dwellers and vegetation on the bank of the river.
<b>1.15</b>	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.
<b>1.16</b>	Facilities for long term housing of operational workers?	No	The proposed project is <b>12.00.0Ha</b> for a period of One year. The required employees (11 nos) are available in the nearby villages, hence long term housing of operational workers are not proposed.
<b>1.17</b>	New road, rail or sea traffic during construction or operation?	No	New road is proposed along the bank with width of 5m and road connecting from quarry to bank will be made with gravel and sugarcane leaves. During operation, and transportation of the Sand. However, internal roads within the quarry lease applied area will be developed and maintained.
<b>1.18</b>	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.
<b>1.19</b>	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	The project will not cause any changes and hindrance in the existing traffic movements.

<b>1.20</b>	New or diverted transmission lines or pipelines?	No	The project does not involve diversion of transmission/pipe lines.
<b>1.21</b>	Impoundment, damming, culver ting, realignment or other changes to the hydrology of watercourses or aquifers?	No	The quarrying operation is proposed up to a depth of <b>1m</b> below the river bed. Ground water occurrence in this area is at <b>8mt</b> (Avg) depth from ground profile. Hence there is no damage for ground water hydrology or aquifers.
<b>1.22</b>	Stream crossings?	No	There is no stream crossing within the quarry lease applied area.
<b>1.23</b>	Abstraction or transfers of water form ground or surface waters?	No	The proposed quarrying does not require any abstraction or transfer of water from the ground or surface water bodies.
<b>1.24</b>	Changes in water bodies or the land surface affecting drainage or run-off?	No	The quarry operation is restricted up to a depth of <b>1m</b> below the river bed. Quarry operation will not affect the drainage pattern of the area. There is no change in water bodies or the land surface affected during run off.
<b>1.25</b>	Transport of personnel or materials for construction, operational or decommissioning?	Yes	Sites service on semi-permanent structure will be constructed only after grant of quarry lease.
<b>1.26</b>	Long-term dismantling or decommissioning or restoration works?	No	No Dismantling or decommissioning is proposed in this project.
<b>1.27</b>	Ongoing activity during decommissioning which could have an impact on the environment?	No	There is no such type of activities involved in this project.
<b>1.28</b>	Influx of people to an area in either temporarily or permanently?	Yes	During operational phase, the manpower requirement will be around <b>11 Nos.</b> Local people are envisaged in this quarry operation. No child labor will be deployed for any type of quarrying operation. All the labors engaged for quarrying operations will be trained, equipped with protective devices and insured till the end of life of quarry.
<b>1.29</b>	Introduction of alien species?	No	There are no causes to develop the alien species.
<b>1.30</b>	Loss of native species or genetic diversity?	No	There will no loss of native species or genetic diversity taken during the quarrying operation as the lease applied area is devoid of vegetation and agriculture.
<b>1.31</b>	Any other actions?	No	There no any other action.

**2. 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 quarry area lies in the government river poramboke land maintained by PWD, WRD, Upper Palar Basin Division. The area is specifically used for free flow of water during rainy season. This removal of sand will increase the functional Efficiency of river.										
2.2	Water (expected source & competing users) unit: KLD	Yes	<p>The project does not require huge water for quarrying operation, about 1.0 KLD of water will be used for the project.</p> <table border="0" style="margin-left: 40px;"> <tr> <td>1. Drinking Water</td> <td style="text-align: right;">– 0.3 KLD</td> </tr> <tr> <td style="padding-left: 20px;">&amp; Domestic purpose</td> <td></td> </tr> <tr> <td>2. Dust Suppression</td> <td style="text-align: right;">– 0.3 KLD</td> </tr> <tr> <td>3. Green belt</td> <td style="text-align: right;"><u>– 0.4 KLD</u></td> </tr> <tr> <td style="padding-left: 40px;">Total</td> <td style="text-align: right;">– 1 KLD</td> </tr> </table> <p>The source of water brought from approved water vendors and nearby tanks on nearby quarry area.</p>	1. Drinking Water	– 0.3 KLD	& Domestic purpose		2. Dust Suppression	– 0.3 KLD	3. Green belt	<u>– 0.4 KLD</u>	Total	– 1 KLD
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Total	– 1 KLD												
2.3	Minerals (MT)	No	There is no Minerals used for construction										
2.4	Construction material - Stone, aggregates, and/Soil (expected source-MT)	No	There is no Construction is proposed.										
2.5	Forests and timber (source-MT)	No	There is no forests and timber (Source –MT)										
2.6	Energy including electricity and fuels (source, competing users) unit: fuel (MT),Energy (MW)	Yes	<p>The limited scale of activities adopted in Sand quarrying does not require high-tension electric power supply.</p> <p>The Sand will be loaded to the tractors by manually. Excavators are not proposed in this quarrying operation; hence Diesel (HSD) consumption is very minimal which will be used for Tractor. Diesel will be brought from nearby diesel pumps.</p>										
2.7	Any other natural resources (use appropriate standard units)	No	No other natural resource will be required.										

**3. 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.**

<b>S. No</b>	<b>Information/Checklist confirmation</b>	<b>Yes/ No</b>	<b>Details thereof (with approximate quantities/rates, wherever possible) with sources of information data</b>
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?	No	Welfare of people will get positive change due to the project, where a number of Welfare activities are being undertaken. Due to increase of the employment earning of local people and lifestyle of the people will enhance, around 11 peoples will be directly benefit to this project. No child labor will be engaged for any type of quarrying operation. All the labor will be insured and the salary and benefits will be paid as per the Labor enforcement officers (Ministry of labor and welfare) Norms
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	No other cause are envisaged

**4. Production of solid wastes during construction or operation or decommissioning (MT/mounts)**

<b>S. No</b>	<b>Information/Checklist confirmation</b>	<b>Yes /No</b>	<b>Details thereof (with approximate quantities/rates, wherever possible) with sources of information data</b>
4.1	Spoil, overburden or mine wastes	No	The Sand quarrying does not produce any waste. The entire Sand is excavated. There are no wastages encountered during the quarrying period.
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	In this quarrying activities waste oil will be generated during the transportation it will be sent to authorize Re- Circulars as per SPCB/ CPCB norms.
4.4	Other industrial process wastes	No	Industrial wastages are not generated during the quarrying operation.
4.5	Surplus product	No	There is no such type of activities in this quarry.
4.6	Sewage sludge or other sludge form effluent treatment	Yes	Sanitary facilities will be constructed as semi-permanent structure and the sewage waste will be disposed as per the norms.
4.7	Construction or demolition wastes	No	There is no Construction and demolition waste involved in this quarry.
4.8	Redundant machinery or equipment	No	There are no redundant machineries involved in this project; only tractors are involved in this quarry operation.
4.9	Contaminated soils or other materials	No	There is no contaminated material or soil observed in the quarry area.
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. Release of pollutants or any hazardous, toxic or noxious substances to air (Kg/hr)**

<b>S. No</b>	<b>Information/Checklist confirmation</b>	<b>Yes/ No</b>	<b>Details thereof (with approximate quantities/rates, wherever possible) with sources of information data</b>
5.1	Emissions form combustion of fossil fuels from stationary or mobile sources	Yes	The emissions of SO <sub>2</sub> (Sulfur dioxide) & NO <sub>2</sub> (Nitrogen dioxide) may be due to use of diesel operated quarry vehicles. Better maintenance of equipment in good condition will help to reduce such emissions.
5.2	Emissions from production processes	Yes	Dust is the main pollutant produced in the proposed activity. Emission from loading and plying of tractors can take place but they will be maintained within limits by proper maintenance and sprinkling of water on haul roads, Tarpaulin covers during Transportation.
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	No major construction activities are envisaged.
5.5	Dust or odors form handling of materials including construction materials, sewage and waste	No	Minor Dust will be generated during loading of material, transportation of Sand and it will be controlled. However, there is no possibility of any odor generation as there are no organic solvents/processes involved.
5.6	Emissions from incineration of waste	No	The Sand quarrying does not produce any toxic effluents.
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	There is no such type of activities involved in this project.
5.8	Emissions from any other sources	No	Emissions from other sources are not envisaged.

**6. Generation of Noise and Vibration, and Emissions of Light and Heat:**

<b>S. No</b>	<b>Information/Checklist confirmation</b>	<b>Yes/ No</b>	<b>Details thereof (with approximate quantities/rates, wherever possible) with sources of information data</b>
6.1	From operation of equipment e.g. engines, ventilation plant, crushers	Yes	<p>Manual quarry operation involved without machineries. Due to transportation of vehicles 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 vehicle.</p> <p>The vibration during the movement of vehicle will be minimal for a short span which will be well within the prescribed limits.</p>
6.2	From industrial or similar processes	No	There is no proposal of processing plant
6.3	From construction or demolition	No	There is no construction or demolition work takes place.
6.4	From blasting or piling	No	No drilling or blasting is proposed for this Sand quarrying operation.
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 vehicle in proper condition as per RTO & TNPCB norms and maintenance under experience and qualified mechanics.
6.6	From lighting or cooling systems	No	The quarry operation will be carried out at the daytime only between 9Am to 7Pm hence; the lighting and cooling systems are not required.
6.7	From any other sources	No	Not envisaged

**7. 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:**

<b>S. No</b>	<b>Information/Checklist confirmation</b>	<b>Yes/ No</b>	<b>Details thereof (with approximate quantities/rates, wherever possible) with sources of information data</b>
7.1	From handling, Storage, use or spillage of hazardous materials	No	No hazardous materials will be used in the process. Vehicles 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	Septic tank will be cleaned periodically and the sludge generated will be used as manure in the green belt.
7.3	By deposition of pollutants emitted to air into the land or into water	No	There is likely hood increase of particulate matter due to transporting. Regular sprinkling of water will suppress dust at points/places of generation.
7.4	From any other sources	No	An efficient and effective management plan is proposed for the project; hence it may not have any significant impact on the surrounding environment.
7.5	Is there a risk of long term buildup of pollutants in the environment from these sources?	No	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	No explosions and spillages are proposed for quarry operation. The Sand directly excavated with the help of manual labors. The quarry operation does not produced hazardous material.
8.2	From any other causes	Yes	Limited vehicles are only used for quarrying operation up to a depth of <b>1m</b> below the river bed. Hence the accident is anticipated minimal. However, all safety measures shall be taken to prevent any accidents. The quarrying activities will be monitored under the supervision of experienced and qualified competent mines foreman.
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc.)?	No	There is no earthquake, floods, Landslides, cloud burst recorded in the area. It's a manual opencast quarrying proposed only depth for <b>1m</b> below the river bed which will not cause any adverse environmental damage due to natural disasters.

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

<b>S. No</b>	<b>Information/Checklist confirmation</b>	<b>Yes/ No</b>	<b>Details thereof (with approximate quantities/rates, wherever possible) with sources of information data</b>
9.1	Lead to development of supporting cities, ancillary development or development stimulated by the project which could have impact on the environment e.g.: <ul style="list-style-type: none"> <li>• Supporting infrastructure (roads, power supply, waste or waste treatment, etc.)</li> <li>• housing development</li> <li>• extractive industries</li> <li>• supply industries</li> <li>• other</li> </ul>	No	Living standard will be improved of the nearby villagers.  This short span of project does not require any supporting infrastructures like roads, power supply, waste treatment, etc.,  The workers are available from the nearby villages, hence the project will not attract housing Development, Extractive industries, supply industries or any other activities.
9.2	Lead to after- use of the site, which could heaven impact on environment	No	The after use of site planned would be better than the present, owing to existing & proposed the quarried out land will be used for collecting the water which will be facilitate the free flowing of water 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.

**(II) Environmental Sensitivity**

S. No	Areas	Name/identity	Aerial distance (within 15 km.) Proposed project location boundary																				
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	No	No protected areas to be identified within 15 km distance.																				
2	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	No	There is no wild life, Bird Sanctuary 15km near the quarrying lease applied area. There is no coastal zone, Eco sensitive zone, Western Ghats within the radius of 15Km, the area does not fall in HACA region. The lease applied area lies in the palar river basin. One lake is situated 2km away from the North western side of the area.																				
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration	No	There is no protected sensitive species identified within the 15km radius.																				
4	Inland, coastal, marine or underground waters	No	There is no Inland, coastal, marine or underground water around the site.																				
5	State, National boundaries	No	There is no Interstate boundary within the radius of 500m																				
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	No	There is no Tourist, pilgrim areas within 15 Km radius																				
7	Defense installations	No	No defense installation found 15km near the site																				
8	Densely populated or built-up area	Yes	<table border="1"> <thead> <tr> <th>S.No</th> <th>Name of the Village</th> <th>Approximate distance &amp; Direction from lease applied area</th> <th>Approximate population</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Katteri</td> <td>1.5km – NE</td> <td>500</td> </tr> <tr> <td>2.</td> <td>Thirumalaichery</td> <td>1.5km – NW</td> <td>800</td> </tr> <tr> <td>3.</td> <td>Chakkaramallur</td> <td>2km – SE</td> <td>500</td> </tr> <tr> <td>4.</td> <td>Sathambakkam</td> <td>1.5km – SW</td> <td>450</td> </tr> </tbody> </table>	S.No	Name of the Village	Approximate distance & Direction from lease applied area	Approximate population	1.	Katteri	1.5km – NE	500	2.	Thirumalaichery	1.5km – NW	800	3.	Chakkaramallur	2km – SE	500	4.	Sathambakkam	1.5km – SW	450
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1.	Katteri	1.5km – NE	500																				
2.	Thirumalaichery	1.5km – NW	800																				
3.	Chakkaramallur	2km – SE	500																				
4.	Sathambakkam	1.5km – SW	450																				

9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Yes	Walajah is having all the facilities, which are at a distance of <b>7km</b> on Northwestern side of the area.
10	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	The quarry operation is restricted to only <b>1m</b> below the river bed. Hence the ground water will not be affected beside the area is devoid of agriculture, Forestry, Tourist place etc.,
11	Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)	No	This is a fresh lease applied area.
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)	No	The area is not susceptible to natural hazards like landslides, earthquake, it is a high stable land.

“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: 18.01.2017

Place: Vellore

**1. Signature of the applicant with Name and Full Address**

The Executive Engineer,  
Public Works Department,  
Water Resource Department,  
Upper Palar Basin Division,  
Vellore District – 632006  
Phone: 0416 -2247375

**2. Signature of the Recognized qualified person**

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