

**FORM 1 AS PER EIA NOTIFICATION 2006 FOR PIRATTIYUR
(EAST & WEST) ROUGH STONE QUARRY LEASE APPLIED AREA
FOR OVER AN EXTENT OF 2.06.5HA IN PIRATTIYUR (EAST &
WEST) VILLAGE, TIRUCHIRAPPALLI (WEST) TALUK,
TIRUCHIRAPPALLI DISTRICT AND TAMILNADU OF
THIRU. J.BOSCO AROKIARAJ.**

**Application Form for Obtaining Environmental Clearance from
State Level Environment Impact Assessment Authority (SEIAA)
Tamilnadu**

FORM 1

(I) BASIC INFORMATION

S. No	Item	Details												
1	Name of the project/s	Pirattiyur (East & West) Rough Stone 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	<p>Proposed capacity of Rough stone 163911m³ for a period of Five years. Area =2.06.5Ha. Total dimension of the area</p> <table border="1"> <thead> <tr> <th colspan="4">Ultimate Pit dimension (M)</th> </tr> <tr> <th>Pit no</th> <th>Length m(max)</th> <th>Width m (avg)</th> <th>Depth (m)(Max)</th> </tr> </thead> <tbody> <tr> <td>I</td> <td>168</td> <td>85</td> <td>62</td> </tr> </tbody> </table> <p>The command area = 1.43.0Ha (effective quarrying area after leaving safety distance) It is a shallow open cast quarry. This is an existing pit, hence no wells are proposed not drilled.</p>	Ultimate Pit dimension (M)				Pit no	Length m(max)	Width m (avg)	Depth (m)(Max)	I	168	85	62
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4	New/ Expansion/ Modernization	It is new proposed quarry project applied for Environmental Clearance. (Pirattiyur (East & West) Rough stone Quarry).												
5	Existing capacity/Area etc.	Geological Resources is estimated at 509828m ³ of Rough stone and 9342m ³ topsoil. Mineable Reserves is estimated at 163911m ³ of Rough Stone after leaving necessary safety distance from the lease boundary as indicated in the precise area letter and relevant mining laws in force. Production Schedule is proposed an average production of 163911m ³ of Rough Stone for the period of Five years. Area :2.06.5Ha												
6	Category of project i.e. 'A' or 'B'	Category – B2.												
7	Does it attract the general condition? If yes, please specify.	The applicant should maintain 7.5m, safety distance all along the boundary barrier.												
8	Does it attract the specify condition? If yes, please specify.	There is no any attract the specify condition.												
9	Location	Pirattiyur (East & West) Village, Tiruchirappalli (West) Taluk, Tiruchirappalli District.												
	Plot/ Survey/ Khasra No.	123/2 (Part) and 166 (Part) (Block II)												
	Village	Pirattiyur (East & West)												
	Taluk	Tiruchirappalli (West)												
	District	Tiruchirappalli												
	State	Tamilnadu												
10	Nearest railway station/ airport along with distance in kms	Tiruchirappalli Railway station -4km-NE Tiruchirappalli Airport 5.5kms-SE												
11	Nearest Town, city, District Headquarters along with distance in kms	Town – Tiruchirappalli -4km - NE Nearest City –Tiruchirappalli - 4km - NE District – Tiruchirappalli - 4km - NE												

12	Village Panchayats, ZilaParishad, Municipal Corporation, Local body (complete postal addresses with telephone nos. to be given)	City Corporation – Tiruchirappalli Taluk – Tiruchirappalli (West) District – Tiruchirappalli
13	Name of the applicant	Thiru. J.Bosco Arokiaraj
14	Registered Address	S/o. A.Joseph, No.22, Colony Main Road, Crawford Colony, Tiruchirappalli District. Pin Code-620 012.
15	Address for correspondence:	
	Name	Thiru. J.Bosco Arokiaraj
	Designation (Owner/Partner/CEO)	Proprietor / Owner
	Address	S/o. A.Joseph, No.22, Colony Main Road, Crawford Colony, Tiruchirappalli District. Pin Code-620 012.
	Pin Code	620 012.
	E-mail	barokiaraj@hotmail.com
	Telephone No.	94433 72191.
	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 sites are 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, no application has been submitted.
20	If no, reason	The project involves Rough stone 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?	It is a Government land. (a) Forest (Conservation) Act 1980. (b) There is no wild life in the project site area under the Wildlife (protection) Act 1972. (C) The project area does not fall the C.R.Z Notification, 1991.
22	Whether there is any Government Order/ Policy relevant/ relating to the site?	Precise area communication was issued by the District Collector Tiruchirappalli Tiruchirappalli District vide Roc.No. Rc.No. 118/2016/Mines dated

		26.05.2016. The Mining Plan was approved by the Assistant Director, Department of Geology and Mining, Tiruchirappalli vide Rc.No. 118/2016/Mines dated 27.06.2016.
23	Forest land involved (hectares)	No forest land is involved lease applied area.
24	Whether there is any litigation pending against the project and/ or land in which the project is propose to be set up? (a) Name of the Court (b) Case No. (c) Orders/ directions of the Court, if any and its relevance with the proposed project.	There is no court case pending, litigations relating to the project directly and indirectly.

1) 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	<p>The topography will be changed after the quarrying of Rough stone as per the Mining plan. Opencast, Semi-mechanized Mining with a bench height of 5m and bench width of 5m is proposed. The ultimate pit dimensions are given below. The depth of the quarry is restricted up to 62m from the BGL.</p> <table border="1"> <thead> <tr> <th colspan="4">Ultimate Pit dimension (M)</th> </tr> <tr> <th>Pit no</th> <th>Length m(max)</th> <th>Width m (Max)</th> <th>Depth (m) (max)</th> </tr> </thead> <tbody> <tr> <td>I</td> <td>168</td> <td>85</td> <td>62</td> </tr> </tbody> </table> <p>Topography will change in respect to overburden excavation. However, measures will be implemented as per mining Plan. As the area of the quarry remains the same, there will not be any increase in intensity of local land use.</p> <table border="1"> <thead> <tr> <th>Sl. No</th> <th>Land Use</th> <th>Present Area (Hect)</th> <th>Area in use during the quarrying period (Hect)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Quarrying Pit</td> <td>1.17.7</td> <td>1.43.0</td> </tr> <tr> <td>2.</td> <td>Infrastructure</td> <td>Nil</td> <td>0.01.0</td> </tr> <tr> <td>3.</td> <td>Roads</td> <td>0.01.0</td> <td>0.01.0</td> </tr> <tr> <td>4.</td> <td>Green Belt</td> <td>Nil</td> <td>0.15.0</td> </tr> <tr> <td>5.</td> <td>Unutilized Area</td> <td>0.87.8</td> <td>0.46.5</td> </tr> <tr> <td></td> <td>Total =</td> <td>2.06.5</td> <td>2.06.5</td> </tr> </tbody> </table>	Ultimate Pit dimension (M)				Pit no	Length m(max)	Width m (Max)	Depth (m) (max)	I	168	85	62	Sl. No	Land Use	Present Area (Hect)	Area in use during the quarrying period (Hect)	1.	Quarrying Pit	1.17.7	1.43.0	2.	Infrastructure	Nil	0.01.0	3.	Roads	0.01.0	0.01.0	4.	Green Belt	Nil	0.15.0	5.	Unutilized Area	0.87.8	0.46.5		Total =	2.06.5	2.06.5
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1.2	Clearance of existing land, vegetation and building?	No	There is no vegetation and building in this project lease area, hence there is no requirement of clearing the vegetation and building. There is an existing road leads to the quarry. This has 5mts carriage way width.
1.3	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. Temporary approach road within the project area will be form for the easy access of men and machinery which will be well maintained. The tippers will transport the Rough stone to the needy crushers by existing road.
1.4	Pre-construction investigations e.g. bore houses, soil testing?	No	The Rough stone is clearly visible by the existing pit, hence pre-construction investigation and soil testing is not proposed before quarrying operation.
1.5	Construction works?	Yes	There will be no major civil works, other than the following infrastructure: office building, storeroom, toilet and first aid room will be provided on permanent structures within the quarry lease applied area in the safety barrier. After the grant of lease.
1.6	Demolition works?	No	There are no existing building within the lease applied area hence no demolition work is involved.
1.7	Temporary sites used for construction works or housing of construction workers?	Yes	Sites service on permanent structure will be constructed only after grant of quarry lease within 7..5m safety barrier.
1.8	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 within the quarry site. There is no requirement of cutting and filling in the site.
1.9	Underground works including mining or tunneling?	No	Conventional open cast semi mechanized quarrying will be adopted. No underground mining or tunneling is proposed.
1.20	Reclamation works?	No	There is no reclamation works is proposed. In the proposed mining plan only 62m depth from BGL has been envisaged as workable depth for safe & economic mining during the lease period. Hence, after quarry reaches ultimate pit limit (for this lease period) of 62m depth from BGL, fencing will be constructed around the quarried pits to prevent inherent entry of the public and cattle.

1.11	Dredging?	No	There is no such type of activities involved in this opencast quarrying operation.
1.12	Offshore structures?	No	There is no such type of activities involved; It is an inland quarrying project.
1.22	Production and manufacturing processes?	No	No production or manufacturing is involved in this Rough stone quarrying. The Rough stone is liberated from the parent rock mass and transported to the needy crushers.
1.14	Facilities for storage of goods or materials?	No	There is no proposal for storage of material within the quarry lease applied area. The Rough stone will be loaded directly to the tippers and transported to needy crushing site.
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	No	The entire quarried Rough stone will be consumed. The anticipated waste will be very negligible the entire Rough stone irrespective of size has a good commercial market at present market scenario. Domestic waste water will be treated in Septic Tank followed by soak pit. The manure will be treated and used for green belt development. The Rough stone will not produce toxic effluence in the form of solid, liquid or gas. No waste water will be discharged by quarry operation.
1.16	Facilities for long term housing of operational workers?	No	The proposed project is 2.06.5Ha for a period of Five years only. The minimum employees are available in the nearby villages, hence long term housing of operational workers are not proposed. Rest shelter will be constructed on permanent structure within the lease area on boundary barrier after the grant of quarry lease.
1.17	New road, rail or sea traffic during construction or operation?	No	No new roads, rail or sea traffic is proposed during operation, the existing road will be utilized for transportation of the Rough stone. There is no habitations or villages en-route between the Rough stone quarry and crushing site. However, internal roads within the quarry lease applied area will be developed and maintained. As per statutory norms

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. Existing road will be utilized for the transportation of Rough stone to the needy crusher sites.
1.19	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. There is no a habitation or villages en-route between the Rough stone quarry to the nearby crushing sites.
1.20	New or diverted transmission lines or pipelines?	No	The project does not involve diversion of transmission/pipe lines.
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No	The quarrying operation is restricted up to a depth of 62m from BGL. Ground water occurrence in this area is 85mt depth from ground profile. Hence there is no damage for ground water hydrology or aquifers.
1.22	Stream crossings?	No	There is no stream crossing within the lease applied area.
1.23	Abstraction or transfers of water from ground or surface waters?	No	The proposed quarrying 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	The quarry operation is restricted up to a depth of 62m from BGL. Quarry operation will not affect the drainage pattern of the lease applied area. There is no change in water bodies or the land surface affected during run off.
1.25	Transport of personnel or materials for construction, operation or decommissioning?	No	During operation phase, after grant of lease quarrying personnel will be brought from surrounding villages by applicant's jeep or van. The materials and tools shall be transported by trucks and tippers, the existing road and infrastructure facilities are sufficient. No construction operation or decommissioning envisaged.
1.26	Long-term dismantling or decommissioning or restoration works?	No	No Dismantling and decommissioning are proposed in this project.

1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	There is no such type of activities involved in this project.
1.28	Influx of people to an area in either temporarily or permanently?	Yes	<p>During operational phase, the manpower requirement will be around 16peoples will be directly and 8 peoples will be indirectly benefit to this project. Local people are envisaged in this quarry operation. Inherent entry of public will be strictly prevented.</p> <p>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.</p>
1.29	Introduction of alien species?	No	There is no proposal to introduce alien species.
1.30	Loss of native species or genetic diversity?	No	There will be no loss of native species or genetic diversity taken during the quarry operation as the lease area is devoid of Plantation, vegetation and agriculture.
1.31	Any other actions?	No	<p>Temporary approach road will be formed and maintain within the lease area.</p> <p>Tippers will be transport the Rough stone to the needy crushers by existing road. (already in good condition)</p> <p>No long term dismantling or decommissioning is involved in this project. This project is sites specific and may not have any significant impact on the environment.</p>

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	It is Government land. The area applied for quarry lease is almost plain topography covered by topsoil. The massive Charnockite formation is clearly inferred followed by the 2m (Avg) Topsoil and sloping towards Northwestern side of the area, the altitude of the area is above 77m (maximum) from MSL.
2.2	Water (expected source & competing users) unit: KLD	Yes	The project does not require huge water for quarrying operation, about 1 KLD of water will be used for the project.(More than 5 L/Person) 1. Drinking Water –0.3KLD & Domestic purpose 2. Dust Suppression – 0.3 KLD 3. Green belt - 0.4 KLD Total – 1 KLD 0.3 KLD of Packaged Drinking water will be brought from the approved water vendors in Edamalaipatti Pudur Village which is about 2km on NE side of the area. Water for dust suppression and Green belt development around 0.3 KLD & 0.4 KLD. Total requirement for the project is around 1KLD.
2.3	Minerals (MT)	No	No minerals used for construction purposes.
2.4	Construction material - Stone , aggregates, and/Soil (expected source-MT)	No	The proposed Rough stone quarry project does not require any construction material. This project itself is to produce Rough stone and soil.
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 Rough stone quarrying does not require high-tension electric power supply. The quarrying operation is only for daytime. The electricity will be used only for mine office and lighting around the quarry during night time. The existing electric line near the quarry site will be used.</p> <p>Fuels are used for operating machineries and vehicles during quarrying process and transportation.</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.

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 Rough stone quarry project.
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	The Rough Stone does not produce any toxic effluent in the form of solid, liquid and gas, hence the diseases related to insect or water borne diseases is not envisaged. There is no proposal of storage of water inside the project area. The seepage water and rain water will be drained immediately by 5HP pumps and it will be used for Green Belt Development and for dust suppression on haul and quarry roads.

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 16 peoples will be directly and 8 peoples will be indirectly 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. The Rough stone will be transported to the needy crusher by tarpaulin cover to prevent spillage.
3.5	Any other causes	No	There is no other cause are envisaged.

4. 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 Rough stone quarrying does not produce any waste. The entire Rough stone irrespective of size will be sold in commercial market. Waste storage does not arise.
4.2	Municipal waste (domestic and or commercial wastes)	Yes	The small quantity of Municipal waste will be generated 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 operation period it will be sent to authorize Re- Circulars as per SPCB/ CPCB norms. Care and maintenance of vehicles by experience qualified mechanics will be undertaken to prevent breakdown and spillage of oils and lubes.
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 on permanent structure and the sewage waste will be disposed periodically as per the norms.

4.7	Construction or demolition wastes	No	No Construction or demolition wastes involved in this quarry.
4.8	Redundant machinery or equipment	No	No redundant machineries involved in this project.
4.9	Contaminated soils or other materials	No	There is no a contaminated material or soil observed in the quarry lease applied area.
4.20	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)

S. No	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with sources of information data
5.1	Emissions from combustion of fossil fuels from stationary or mobile sources	Yes	The emissions of SO ₂ (Sulfur dioxide) &NO ₂ (Nitrogen dioxide) may be due to use of diesel operated quarry machinery and 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, drilling and blasting but they will be maintained within limits by proper maintenance and sprinkling of water and Afforestation developments. Tarpaulin covers will be covered in vehicles during transportation.
5.3	Emissions from materials handling including storage or transport	Yes	Fugitive dust will be generated from material handling activities. Dust suppression by water sprinklers 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. It's a conventional Eco friendly quarrying operation.
5.5	Dust or odors form handling of materials including construction materials, sewage and waste	No	Minor Dust will be generated during breaking of rocks, transportation of Rough stone 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 Rough stone quarrying does not produce any toxic effluent.

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 quarry 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:

S. No	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with sources of information data
6.1	From industrial or similar processes	No	There is no proposal of processing plant.
6.1	From operation of equipment e.g. engines, ventilation plant, crushers	Yes	Due to operation of machineries there is likely hood of some increase in noise level. The noise level at site will be maintained below permissible limit. Measures like lubrication & preventive maintenance shall be taken to control noise from the machineries. The vibration during the moment of machinery will be minimal for a short span that will be well within the prescribed limits.
6.3	From construction or demolition	No	No construction or demolition work takes place.
6.4	From blasting or piling	No	The quarrying activity will be carried out blasting for shattering effect and loosen the Rough stone. However, controlled blasting measures will be adopted for minimizing ground vibration.
6.5	From construction or operational traffic	Yes	The transport of Rough stone 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 quarry operation will be carried out at the day time only hence the lighting and cooling systems are not required.
6.7	From any other sources	No	This quarrying project is site specific which is operated by jackhammer drilling and limited blasting; hence external power other than HSD is not involved in this project.

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:

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 soap 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 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	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 not involved in this quarry.

8. 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	The drilling and blasting are involved in the project for liberation and splitting of Rough stone. The explosive materials will be brought from authorized explosive license holder during blasting. There is no proposal of storage of explosives after the grant of quarry lease.

8.2	From any other causes	Yes	The risks of accidents are envisaged in quarry operations, failure of quarry pit slopes, excavators, tipper movement, etc. 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 lease applied area. It's an opencast quarrying, hence this project could not affect severely due to the 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

S. No	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with sources of information data
9.1	Lead to after- use of the site, which could haven impact on environment	No	The land does not used after the completion of quarrying operation the fencing will be constructed around the quarried pits to prevent the inherent entry of public and cattle.
9.2	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"> • Supporting infrastructure (roads, power supply, waste or waste treatment, etc.) • housing development • extractive industries • supply industries • other 	No	Living standard will be improved of the nearby villagers. The proposed project shall directly/indirectly develop the area by providing employment, tax to government, development of ancillary units, shopkeeper, supermarket, mechanic shed 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.
9.3	Set a precedent for later developments	No	A better after use scenario with increase in greenery, besides the quarried out pit will act as a temporary reservoir which will enhance the static level of the Ground water in the nearby wells.

9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	No	No cumulative impacts are envisaged.
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(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	There are no such protected areas like ecological landscape, cultural area etc. identified 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	No	There is no wild life, bird sanctuary, Reserve or Social forest within 10kms radius from the quarrying lease area. There is no coastal zone, Forest, Eco sensitive zone within the radius of 10Km. The area does not fall in HACA region.
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	There is no protected sensitive species are identified within the 10km radius.
4	Inland, coastal, marine or underground waters	No	There is no Inland, coastal, and marine or underground water around the site.
5	State, National boundaries	No	There is a No State and National boundary within 10Km radius.
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 10 Km radius.
7	Defense installations	No	No defense installation found within 10Kms from the project area.

8	Densely populated or built-up area	Yes	Pirattiyur (East & West) is densely populated village. This is about 2.0km - NE.											
			S.No	Name of the Village	Approximate distance & Direction from lease applied area	Approximate population								
			1.	Edamalaipatti Pudur	2km - NE	2000								
			2.	Pirattiyur	2.5km - NW	300								
			3.	Padugai	2.8Km - SE	200								
9	Areas occupied by sensitive man-made land uses (<i>hospitals, schools, places of worship, community facilities</i>)	Yes	Tiruchirappalli having all the facilities which are at a distance of 4km-NE side from the lease applied area.											
			20	Areas containing important, high quality or scarce resources (<i>ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals</i>)	No	The quarry operation is restricted to only 62m depth from BGL. 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. (<i>those where existing legal environmental standards are exceeded</i>)	No	This is the fresh quarry project applied for lease, hence the area has not subjected to pollution or environmental damage. The atmosphere is quite fresh and it is proposed to carry out the quarrying operations an Eco friendly manner.					
									12	Areas susceptible to natural hazard which could cause the project to present environmental problems (<i>earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions</i>)	No	The areas are not susceptible to natural hazards like landslides, earthquake, it is a high stable land. There are no evidences recorded in the past history.		

The local institution will be engaged to carry out the **EIA & EMP** regularly after the grant of the quarry lease and there port will be periodically submitted to relevant authorities as per norms. “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”.

Signature of the Proponent
with Name and Full Address



Thiru.J.Bosco Arokiaraj
S/o. A.Joseph,
No.22, Colony Main Road,
Crawford Colony,
Tiruchirappalli -620 012.

Date: 28 .06.2016
Place: Salem

Signature of the Recognized Qualified Person



S.Jayachandran B.E., F.C.M., M.E.A.I.,
RQP/MAS/050/88/A