

ANNEXURE NO.

Validity expires on 31-05-2016



सत्यमेव जयते



**Proceedings of the State Environment Impact Assessment Authority
Kerala**

*Present: Prof. (Dr.) K.P. Joy, Chairman, Dr. J. Subhashini, Member and Sri. P. Mara Pandiyan I.A.S
Member Secretary.*

Sub: Environmental clearance for the building stone quarry project in
Sy.No. 328/2-1, 2-2, 3,6, 326/1-2,1-1,2, 325/2,4,5, 301/34,37 at
Chadayamangalam village, Kottarakkara (Taluk), Kollam district, Kerala by
Sri. Shaji. S- E.C Granted- Orders issued

State Environment Impact Assessment Authority, Kerala

No. 752/SEIAA/KL/301/2015

Dated: Thiruvananthapuram 01-06-2016

- Ref:**
1. Application dated 24/01/2015 from Sri. Shaji.S, Thekkuvilamelathil, Kudavattoor (P.O), Kottarakkara (Taluk), Kollam
 2. Minutes of the 48th meeting of SEAC held on 29/30-9-2015.
 3. Minutes of the 53rd meeting of SEAC held on 6th- 7th April, 2016.
 4. Minutes of the 52nd meeting of SEIAA held on 29-4-2016.

ENVIRONMENTAL CLEARANCE NO. 83 / 2016

Sri. Shaji. S. Thekkuvilamelathil, Kudavattoor (P.O), Kottarakkara (Taluk), Kollam vide his application dated 24/01/2015, has sought Environmental Clearance under EIA Notification, 2006 for the granite building stone open cast quarry is proposed by Shah Quarry in Sy. No. 328/2-1, 2-2, 3,6, 326/1-2,1-1,2, 325/2,4,5, 301/34,37 at Chadayamangalam village, Kottarakkara (Taluk), Kollam district, Kerala for an area of 3.43.10 ha. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18th May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.



BASIC INFORMATION OF THE PROJECT

Name of project		Building stone quarry , Chadayamangalam	
Category/Subcategory & Schedule		B - 2 category (<25 hectares minor mineral)	
Location Sy no/ district, Taluk/ village etc.		Sy.No : 328/2-1Pt, 328/2-2Pt, 328/3,326/1-1, 326/1-2,326/2Pt, 325/2,325/4,325/5. Village : Chadayamangalam Taluk : Kottarakkara District : Kollam.	
GPS co-ordinates		Latitude (N)	08°51'17.6" To 08°51'31.2"
		Longitude (E)	76°52'43.1" To 76°52'54.1"
r Mining projects	Extent of area (in hectares)	3.43.10 ha	
	Minimum and maximum height of excavation (MSL)	115 MSL maximum level, 85 MSL minimum level, Avg Depth 30mtr.	
	Life of mine proposed	14 Years	
	Ultimate depth of mining (in MSL)	85 MSL (Avg 30 mtr Depth from OGL)	
	Distance from the adjacent quarry	Nil. Away from 500 mtr	
	Capacity of production	75,000 Tonnes Per Annum	
	Details of project cost	Rs 75 Lakhs	
CRZ recommendations		Not Applicable	
Forest clearances			
Does it attract violation proceedings		Nil	
Envr Mgmt plan/ Eco restoration plan (brief details)		MANAGEMENT PLAN:	
		Air pollution	Quarry operation will produce dust and will pollute the air Dust will be arrested at the dust arising places itself with frequent water sprinkling.



	Water pollution	There will be no change in the existing drainage system due to the proposed quarrying activities. No change in the existing status is envisaged. Necessary control measures like chlorination etc in the well will be made.
	Noise	To keep the noise level under control within the limits, proper maintenance of these machines will be done.
	Solid Waste Management	Total quantity of Top soil 55,805 Tonne & quantity of Overburden 54,529 Tonns will be handled during the life of the mine. Top soil will be used for plantation and the waste rock will be used for refilling, leveling of roads. It will be temporarily dumped in Southern side of the Lease Area
	Eco restoration	To maintain Eco restoration, periodical afforestation and maintenance of the plantation will be made, rain harvesting and dust controlling will be done. Mining will be carried by Eco-friendly method.
ABOUT THE PROJECT		
WATER		
Water requirement & sources	1.00 KLD domestic 4.00 KLD Dust control Plantation . 5.00 KLD Source : dug well and rain water collection	
RWH units proposed	Rain water harvesting ponds proposed during post mining extending over an area of 0.39.00 hector in the bottom level of mining Pit and 0.03.00 hect outside the Lease area.	
Facilities for liquid waste treatment	Liquid waste from toilet and office, will be treated in septic tank and soak pit	
Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	Nil	
Water quality meeting requirements	As per rules applicable	
Does it have provisions for use of recycled water	Not applicable	
LAND		
Proximity to forest lands	Nil, as stated by proponent	



Access road to the site Width & Condition	Access Road is starting from Kadannur to Ayoor road at a distance of 150 m. The access road is being maintained 7.0 width for the movement of trucks.
Storage of explosives hazardous substances	The company has obtained explosive licences for magazines. Explosives will be procured, stored, transported, handled and used in accordance with Indian Explosives Rules 2008, Mines Act 1952 and regulations there under.
Facility for solid waste mgmt	Solid waste will be used for leveling, paving of roads, owner's construction works Solid waste will be stored temporarily on the Western side over an extent of 0.18.00 hectare in Applicant's Own Land.
Topographic features/ slope	Topographically the area is an undulating hill with slope towards south. The charnockite rocks are occurring in a massive form in the entire regional areas with a general strike of NE/SW Length of the deposit : 295 mtr Width of the deposit : 200 mtr
Proneness of the area for landslides	Nil
AIR	
Air quality meeting requirements	As per the rules applicable
Noise level meeting requirements.	As per rules applicable
Likely emissions affecting environment	Due to quarry activity and operation of transport vehicle, generation of dust, noise is likely to arise. The mitigative measures proposed in EMP will be implemented.
ENERGY	
Energy requirement	Power supply is required for office, workshop, canteen, will be drawn from KSEB. Quarry machines are by diesel operated. About 80 litres of diesel is required per day.
Energy sources	KSEB
Extent of usage of alternative energy resources	Generator
BIODIVERSITY	
Presence of any endangered species or red listed category	There are no endangered or rare species in the area.
Loss of native species and genetic diversity	There will not be any loss of native species of genetic diversity by the quarry operation. The company will maintain eco restoration program in the surrounding area.
Likely displacement of fauna	Nil, as stated as proponent



Any introduction of alien / invasive species	Nil, as stated as proponent
SOCIAL ASPECTS	
Proximity to nearest habitation	102 m from Lease Boundary (house)
CSR related to the project/ allocation/ time frame (details mandatory)	Common facilities and social activities will be sponsored
GENERAL	
Biomedical waste management	Not applicable
E-waste management	Not applicable
Sufficiency of parking spaces/ traffic management	Sufficient
Litigation/court cases, if any, against the project (provide details)	Nil, as reported
Right & nature of ownership of land	Company owned Patta Land
Is the property forest land/govt. land/own land	Company owned Patta Land
Details of Authorised Signatory	Shri. Shaji.S - (Managing Partner), Shah Quarry, Thekkuvila melathil, Kadavattor (P.O), Kottarakkara Taluk, Kollam District- 691 512 Phone No : 9447556432 Email : shaji6460@gmail.com

2. The proposal was considered in the 48th meeting of the SEAC held on 6th and 7th November, 2015. In the said meeting, it was decided to defer the proposal for filed inspection and submission of following documents:

1. Detailed route map should be provided
2. Biodiversity details of the area with IUCN status of each of the species
3. The original cadastral map certified by village officer

4. A more realistic need based CSR proposal.

The proponent has accordingly submitted the details/above said documents sought by the SEAC. The site inspection was completed on 13.01.2016 by the subcommittee comprised of Dr. K. Harikrishnan and Sri. John Mathai. The Proponent with his representatives were present at the site at the time of site visit.

"The project is an active quarry located near Kuriyode on the MC road. This quarry lease area of 4.6725 ha falling partly in own land and partly in government land occupy the elevated part of a gently undulating area. Boundary pillars are erected and numbered displaying GPS values. The rock type is a mixture of gneiss and charnockite. The removed OB from the existing quarry is stocked at convenient places based on the place of excavation. RWH structures are not seen. A seasonal stream is seen by the side of the quarry land with both flanks owned by the proponent. Rubber is the dominant landuse. Floral and faunal biodiversity is not observed as the area is cleared for rubber. Dwelling units are seen in the immediate vicinity but beyond 100 m. Two buildings within 100 m are used as office and other facilities for workers. The documents regarding NOC for Govt land has not been verified.

Based on an overall evaluation of the site, the quarry operations may be recommended with following conditions:

- 1. Fencing should be provided all around the lease area.*
- 2. Top soil and Over burden should be stored in a designated place on the lower slope away from the working area and provided with protective support walls.*
- 3. Ultimate depth of mine must be limited to the stream bed level seen in the vicinity.*
- 4. The seasonal stream should be provided with protective embankments to prevent entry of quarry waste. It should also be provided with low level check dams at least at two places to arrest silt being washed downstream. Periodic desiltation is essential.*
- 5. The approach road is narrow and presently not maintained for movement of heavy vehicles. This should be taken up on priority basis.*
- 6. The CSR activity needs revision".*

3. The proposal was placed before 53rd SEAC for appraisal. The Committee further appraised the proposal in the light of the field inspection report. It was found that there is a case of violation. It was decided to recommend for issuance of EC after completing action against violation subject to the following specific conditions in addition to general conditions applicable for mining proposals.

1. Fencing should be provided all around the lease area.
2. Top soil and Over burden should be stored in a designated place on the lower slope away from the working area and provided with protective support walls.
3. Ultimate depth of mine must be limited to the stream bed level seen in the vicinity.
4. The seasonal stream should be provided with protective embankments to prevent





- entry of quarry waste. It should also be provided with low level check dams at least two places to arrest silt being washed downstream. Periodic desiltation is essential.
5. The approach road is narrow and presently not maintained for movement of heavy vehicles. This should be taken up on priority basis. CSR activity must be submitted before the Authority.

Authority decided to accept the recommendations of SEAC in para 3 except that on violation proceedings and to grant E.C subject to production of revised CSR undertakings, and the above specific conditions in addition to the general conditions.

5. State Environmental Impact Assessment Authority Kerala hereby grant environmental clearance to the proposed quarry project by Sri. Shaji. S, Thekkuvilamelathil, Kudavattoor (P.O), Kottarakkara (Taluk), Kollam Sy. No. 328/2-1, 2-2, 3,6, 326/1-2,1-1,2, 325/2,4,5, 301/34,37 at Chadayamangalam village, Kottarakkara (Taluk), Kollam district, Kerala for an area of 3.43.10 ha subject to the specific conditions given in para 3 above and the general conditions in the appendix.

6. The clearance issued will also be subject to full and effective implementation of all the undertakings given in the application form, mitigation measures in the Environment Management Plan in Chapter 2 of the Pre-Feasibility Report and the mining features including progressive mine closure plan as submitted with the application and relied on for grant of this clearance. The above undertakings and the conditions and undertakings in Chapter 4 (Mining), Chapter 5 (Blasting) Chapter 6 (Mine Drainage), Chapter 7 (other permanent structures), Chapter 9 (Environment Management plan), Chapter 10 (Progressive Mine Closure Plan) of the Mining Plan as submitted will be deemed to be part of this proceedings as conditions as undertaken by the proponent, as if incorporated herein.

As regards the recommendation for violation proceedings, it is a working quarry with lease/permit, the decision of the Hon. Supreme Court in S.L.P.No. 30103/ 15 (to maintain status quo) will apply. E.C was made applicable to mining of minerals in areas less than 5 ha, only in pursuance of the order dated 27.2.2012 of the Hon. Supreme Court case in Deepak Kumar VS state of Haryana. The extent in this being less than 5 ha violation proceedings based on working with out EC can be initiated.

7. Validity of the environmental clearance will be five years from the date of this clearance, subject to earlier review in the event of genuine complaint from anybody from the safety area or violation or non- compliance of any of the conditions stipulated herein.

8. Compliance of the conditions herein will be monitored by the Authority or its agencies and also by the regional office of the Ministry of Environment & Forests, Govt. of India, Bangalore.

- i) Necessary assistance for entry and inspection should be provided by the project proponent and those who are engaged or entrusted by him to the staff for inspection or monitoring.

- ii) Instances of violation if any shall be reported to the District Collector, Kollam to take legal action under the Environment (Protection) Act, 1986.
- iii) The given address for correspondence with the authorized signatory of the project Sri. Shaji. S. Thekkuvilamelathil, Kudavattoor (P.O), Kottarakkara (Taluk), Kollam

P. Mara Pandiyan, I.A.S
Member Secretary (SEIAA)
&

Additional Chief Secretary to Government
Environment & Forest Department
Government of Kerala.



To ✓
Sri. Shaji. S. Thekkuvilamelathil,
Kudavattoor (P.O), Kottarakkara (Taluk),
Kollam

Copy to,

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E&F Wing, II Block, Koramangala, Bangalore-560034.
2. The Additional Chief Secretary to Government, Environment Department, Government of Kerala.
3. Director, Mining & Geology, Thiruvananthapuram -4.
4. District Collector, Kollam
5. Secretary, Chadayamangalom Grama Panchayath Kottarakkara P.O., Kollam
6. Chairman, SEIAA.
7. Website.
8. S/f
9. O/c



Forwarded/ By Order

Administrator,

SEIAA