

Proceedings of the State Environmental Impact Assessment Authority Kerala-

(Present Prof. (Dr.) K.P. Joy, Chairman (Dr.) Subhashini, Member, Dr. Nivedita P. Haran IAS, Member Secretary Additional Chief Secretary to Government (Environment Department))

Sub: SEIAA Kerala Quarry project of M/s Aranhikkal Granite unit, Pathappiriyam P.O, Malappuram district, 676123 - Environment Clearance Accorded

Environmental Clearance

No. 241/SEIAA/KL/97/2014

Dated 05.12.2014

- Ref.**
1. Application dated 25.02.2014 from Mr. Jamal Mohammed, Managing Partner of M/s Aranhikkal Granite Unit, Pathappiriyam P.O, Edavana, Malappuram district-676123.
 2. Minutes of the 26th meeting of SEAC held on 20/21-03-2014
 3. Minutes of the 32nd meeting of SEAC held on 12/13-08-2014
 4. Minutes of the 35th meeting of SEAC held on 17-10-2014
 5. Minutes of the 34th meeting of SEIAA held on 31-10-2014

ORDER

Mr. Jamal Muhammed, Managing Partner, M/s Aranhikkal Granite unit, Pathappiriyam P.O, Edavana, Malappuram district-676123 vide his application received on 01.03.2014, has sought Environmental Clearance under EIA Notification, 2006 for the building stone quarry project in Survey Nos. Sy. Nos. 111/1 & 113/1 at Edavanna Village and Sy. No. 217 at Perakamanna Village, Eranad Taluk, Malappuram District, Kerala for an area of 9.9499 hectares. 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 on the project is as under:

Name of project		M/s Aranhikkal Granite Unit,
Brief description of the project		Quarry project with an area of 9.9499 ha. & production capacity of 3,50,000 MTA
Category/Subcategory & Schedule		Category B/B2 & Schedule 1 (a)
Location Syno/ district, Taluk/ village etc.		Sy. No. 111/1 & 113/1 of Edavanna Village and Sy. No. 217 of Perakamanna Village, Panchayat - Edavanna, Taluk - Eranad, District - Malappuram, Kerala.
GPS co-ordinates		Longitude: E76° 07' 27.58" to E76° 07' 03.17" Latitude: N11° 12' 04.76" to N 11° 11' 56.97"
for Mining projects	Extent of area (in hectares)	9.9499 ha.
	Minimum and maximum height of excavation (MSL)	56 m. MSL and 186 m. MSL
	Life of mine proposed	28 years
	Ultimate depth of mining (in MSL)	56 m. MSL
	Distance from the adjacent quarry	Al-Madeena within 500 m.
	Capacity of production	3,50,000 MTA
	Details of Project Cost	Rs. 5 Crores

CRZ recommendations	Not Applicable
Forest clearances	Not Applicable

ABOUT THE PROJECT

Environmental parameters	Mitigation Measures
WATER	
Water requirement & sources	The total water requirement is about 17 KLD in which 2 KLD is for domestic which would be sourced from open well, 12 KLD for dust suppression system in mine as well as ancillary unit (M Sand & Crusher Unit) and 3 KLD for plantation purposes and will be sourced from storm water pond. The source of water is from storm water pond / well.
RWH units proposed	Yes, Rain water collection pond
Facilities for liquid waste treatment	Not applicable
Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No impoundment, damming, culverting, realignment or other changes to the hydrology of surface water courses
Water quality meeting requirements	Water quality meeting requirements after the treatment of water (filtration, disinfection & sedimentation).
Does it have provisions for use of recycled water	No
LAND	
Proximity to forest lands	None within the study area
Access road to the site –Width & Condition	7 m. tarred road, S
Storage of explosives /hazardous substances	Yes, Explosives will be stored as per Explosives Act/Rules.
Facility for solid waste mgmt	The municipal solid waste will be suitably disposed.
Topographic features/ slope	The topography of the lease area is rock area. The slope of the lease area are :- Section 'A - A' $\approx 30^0$ Section 'C - C' $\approx 20^0$ Section 'E - E' $\approx 22^0$ Highest level = 186 m MSL, N side Lowest level = 61 m MSL, S side
Proneness of the area for landslides	No
Significant land disturbance resulting in erosion, subsidence & instability	No
Top soil, overburden etc.	Top soil – 99,876 cu.m. Overburden – Nil
AIR	
Air quality meeting requirements	Yes
Noise level meeting requirements	Yes
Likely emissions affecting environment	Diesel engine emissions & emissions from movement of vehicles like dumpers, trucks, tankers etc. will also generate.

ENERGY

Energy requirement	The total power requirement will be 75 kW for compressors, which will be drawn from diesel engine.
Energy Sources	From diesel engine.
Extent of usage of alternative energy resources	No

BIODIVERSITY

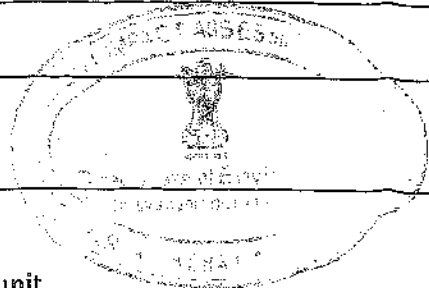
Presence of any endangered species or red listed category	No
Loss of native species and genetic diversity	Yes, For the quarrying activity all of native tree species, shrubs, herbs, climber etc. existing at site will be cleared.
Likely displacement of fauna	No
Any introduction of alien / invasive species	No

SOCIAL ASPECTS

Proximity to nearest habitation	250 m., S
CSR related to the project / allocation / time frame (details mandatory)	As part of Corporate Social Responsibility, it is proposed to spent minimum of Rs. 37.16 lakhs for different activities as mentioned in consultation with local village authorities. Bio-diversity fund - As part of Access and Benefit Share (ABS), 1 percent of annual profit of the firm would be given to Biodiversity Management Committee of the Panchayath through the concerned Grama Panchayath towards the restoration of biodiversity loss due to quarrying activities.

GENERAL

Does it propose environment management plan	Yes
Does it have eco restoration programmes	Yes, The year wise programme of afforestation for the life of mine, about 9,000 trees will be planted. The main aim of the green belt development is to restore the ecosystem to its original form to a maximum possible extent by designing the green cover with the same native species.
Biomedical waste management	Not applicable
E-waste management	Not applicable
Sufficiency of parking spaces/ traffic management	Yes
Litigation/court cases, if any, against the project (Provide details)	No
Details of Authorised Signatory	Mr. Jamal Muhammed, Managing Partner, M/s Aranhikkal Granite unit, Pathappiriyam P.O, Malappuram district, 676123
Details of NABET approved EIA consultant organization	M/s Enkay Enviro Services Pvt. Ltd., 24-B, Dadu Marg, Gopal Bari, Ajmer Road, Jaipur, Rajasthan-302001. QCI List at Sr. No. 43 as per NABET list of accredited consultant organizations, Rev. 18 on 5 th March, 2014.



The proposal was considered as agenda item no. 26.09 in the 25th SEAC meeting held on 20th and 21st March 2014. The item was deferred for site visit and seeking certain additional clarifications/documents from the proponent to be submitted to SEAC for further consideration of the proposal. As per the decision taken by the Committee, a site visit was conducted by an expert team on 18th June 2014. Subsequently the proponent has submitted the additional clarifications/documents sought, which was placed before SEAC in its 32nd meeting held on 12th and 13th August 2014 for verification and decision. The Committee recommended the project as per the general conditions stipulated for mining projects, subject to the clarification as per the ownership of land Sy. No. 217.

The committee verified the additional documents submitted by the proponent and found that the proponent has submitted detailed split up of the extent of area of the present proposal of 9.9499 hectares specifically stating the extent of area in each Sy. No. Map showing the proposed mining area (with extent of area) marking exact distance from the survey boundary pillars as well as the Cadastre of the project site superimposed on google map. Hence the committee recommended the proposal subject to the following specific conditions and the general conditions stipulated for mining projects.

1. The steeply cut faces on the lower/bottom region must be fenced and provided with danger signs.
2. A buffer distance of 100 m must be left from the main road.

The case was placed before the SEIAA in its 34th meeting held on 24.10.2014 and 31.10.2014. The Authority approved the proposal for issue of environmental clearance subject to the general and special conditions as per the recommendations of SEAC, and the decision of joint meeting of SEIAA and SEAC held on 31.10.2014. The general conditions adopted for mining projects by the joint meeting are enclosed as the annexure.

Environmental Clearance under EIA notification 2006 is hereby accorded for the proposed quarry project of M/S Aranhikkal Granite unit, Pathappiriyam P.O, Malappuram district, in Survey No: 111/1,113/1 of Edavana village, and Survey No.217 of Perakamanna Village, Edavana panchayat, Eranad Taluk, Malappuram district subject to all the mining features, Environmental Management Plans (Page 4. Page 40-60 of report) as undertaken in the EMP submitted to SEIAA which will form part of this proceedings as if incorporated herein, and the following additional specific conditions, and this general conditions on mining of miner mineral appended hereto:

1. The steeply cut faces on the lower/bottom region must be fenced and provided with danger signs.
2. A buffer distance of 100 m must be left from the main road.

Validity of this Environmental clearance will be 5 years and it will be subject to review at any stage earlier, if any of the conditions in the E.C. is violated, or not duly complied with.

Compliance of the conditions herein will be monitored by the Directorate of Environment and Climate Change or its agencies and also by the Regional office of the Ministry of Environment and 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, Malappuram to take legal action under the Environment (Protection) Act 1986.




For Member Secretary (SEIAA)

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Pathappiyam P.O., Malappuram District
Kerala-676123.
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Copy to:

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Bangalore-560034

The Addl. Chief Secretary to Government, Environment Dept, Government of Kerala

The District Collector, Malappuram

The Director, Dept. of Environment and Climate Change, Govt. of Kerala, Tvm - 24.

The Director, Mining and Geology Department, Government of Kerala

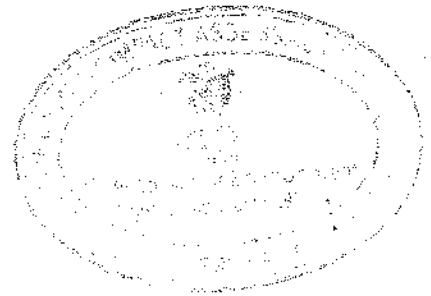
The Secretary, Edavanna Grama Panchayath, Malappuram district

Chairman SEIAA Kerala

Website

Stock file

O/c



GENERAL CONDITIONS (for mining projects)

- i) Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified.
- ii) Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.
- i) Suitable avenue trees should be planted along either side of the tared road and open parking areas, if any, including of approach road and internal roads.
- i) Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.
- i) Sprinklers shall be installed and used in the project site to contain dust emissions.
- i) Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.
- i) At least 10 percent out of the total excavated pit area should be retained as water storage areas and the remaining area should be reclaimed with stacked dumpings and overburden and planted with indigenous plant species that are eco-friendly.
- i) Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented
- i) The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mine
- i) Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.
- i) Control measures on noise and vibration prescribed by KSPCB should be implemented.
- i) Quarrying activities should be limited to day time as per KSPCB guidelines.
- i) Blasting should be done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency.
- i) A licensed person should supervise/ control the blasting operations.
- i) Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.
- i) Overburden materials should be managed within the site and the old quarries, if any, should be reclaimed and restored.
- i) Height of benches should not exceed 5 m and width should not be less than 5 m.
- i) Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.
- i) Maximum depth of mining from general ground level at site shall not exceed 10m
- i) No mining operations should be carried out at places having a slope greater than 45°.
- i) Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB.
- i) The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.
- i) Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.
- i) The transportation of minerals should be done in covered trucks to contain dust emissions.
- i) The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.
- i) Disposal of spent oil from diesel engines should be as specified under relevant Rules/ Regulations.
- i) Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department.
- i) A minimum buffer distance of 100m from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided
- i) 200 m buffer distance should be maintained from forest boundaries.
- i) Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating activity.
- i) All other statutory clearances should be obtained, as applicable, by project proponents from the respective

competent authorities including that for blasting and storage of explosives.

(xxiii) In the case of any change(s) in the scope of the project, the project would require fresh appraisal by the Authority.

(xxiv) The Authority reserves the right to add additional safeguard measures subsequently found necessary, and to take action including revoking of the environmental clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.

(xxv) The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act 1931, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.

(xxvi) The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Department of Environment and Climate Change, Govt. of Kerala and may also be seen on the website of the Authority at www.seiaakerala.org. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.

(xxvii) A copy of the clearance letter shall be sent by the proponent to concerned Grama Panchayat/ District Panchayat/ Municipality/ Corporation/ Urban Local Body and also to the Local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The Environmental Clearance shall also be put on the website of the company by the proponent.

(xxviii) The proponent shall submit half yearly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the respective Regional Office of MoEF, Govt. of India and also to the Directorate of Environment and Climate Change, Govt. of Kerala.

(xxix) The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font of size of not less than 40. Sign board with extent of lease area and boundaries shall be depicted at the entrance of the quarry, visible to the public

(xxx) The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed.

(xi) The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license or consent given by any other authority for the same project



Member Secretary, SEIAA Kerala