

Proceedings of the State Environmental Impact Assessment Authority Kerala-

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

Sub: SEIAA, Kerala Quarry project of M/S Sahara Granites, Erimayur I Village, Erimayur Panchayath, Alathur Taluk, Palakkad District, Kerala - Environment Clearance Accorded

Environmental Clearance

No. 146/SEIAA/KL/2747/2013

DISPATCHED

Date 11/12/14, Dated 05-12-2014

- Ref. 1. Application dated 07.10.13 from M/S Sahara Granites, Erimayur I Village, Erimayur Panchayath, Alathur Taluk, Palakkad District, Kerala
2. Minutes of the 21st meeting of SEAC held on 4-11-2013
3. Minutes of the 25th meeting of SEAC held on 14/15-02-2014
4. Minutes of the 27th Meeting of SEIAA held on 11-03-2014
5. Minutes of the 32nd meeting of SEAC held on 12/13-08-2014
6. Minutes of the 34th Meeting of SEIAA held on 24/31-10-2014



ORDER

Sri. Biju, Managing Partner, M/s Sahara Granites, Marakkavu, Erimayur P.O, Palakkad-678546, vide his application received on 07.10.13, has sought Environmental Clearance under EIA Notification, 2006 for the building stone quarry project in Survey Nos. 35/2 pt., 35/3 and 41 pt. at Erimayur I Village, Erimayur Panchayath, Alathur Taluk, Palakkad District, Kerala for an area of 9.4778 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 Sahara Granites |
| Brief description of the project | | Quarry project with an area of 9.4778 ha. & production capacity of 5,70,000 MTA |
| Category/Subcategory & Schedule | | 1(a) Mining of minerals, Category B Mining Lease area between 0 to 50 ha. |
| Location Sy no/ district, Taluk/ village etc. | | Sy. No. 35/3, 35/2 part, 41 part in Village - Erimayur-I, Panchayat - Erimayur, Taluk - Alathur, District - Palakkad, Kerala |
| GPS co-ordinates | | Longitude: E 76° 33' 16.22" to E 76° 32' 59.37" Latitude: N 10° 40' 32.74" to N 10° 40' 16.59" |
| for Mining projects | Extent of area (in hectares) | 9.4778 ha. |
| | Minimum and maximum height of excavation (MSL) | 75 m. MSL and 105 m. MSL |
| | Life of mine proposed | 18 years |
| | Ultimate depth of mining (in MSL) | 75 m. MSL |
| | Distance from the adjacent quarry | Quarry & Crusher of M/s Star Granites - 50 m. NW |
| | Capacity of production | 5,70,000 MTA |

| | |
|------------------------|----------------|
| Detail of Project Cost | Rs. 90 Crores |
| CRZ recommendation | Not Applicable |
| Forest clearances | Not Applicable |

ABOUT THE PROJECT

Environmental parameters

Mitigation Measures

WATER

Water requirement & sources

The total water requirement is about 5 KLD (Domestic - 1 KLD, Dust suppression - 2 KLD & Plantation - 2 KLD).

The source of water is from storm water pond / wells.

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

No

Access road to the site - Width & Condition

8 m. tarred road, NE side

Storage of explosives / hazardous substances

Yes,

Explosives will be stored as per Explosives Act/Rules

Facility for solid waste mgmt

The municipal solid waste from the labour quarter will be suitably disposed.

Topographic features/ slope

The topography of the lease area is hilly area.
The slope of the lease area are :-

Section 'A - A' = 7°

Section 'B - B' = 24°

Section 'D - D' = 5°

Highest level = 110 west side

Lowest level = 80 on North side

Top soil, overburden etc.

Top soil - 47,389 cu. m.

Overburden - 94,778 cu.m.

AIR

Air quality meeting requirements

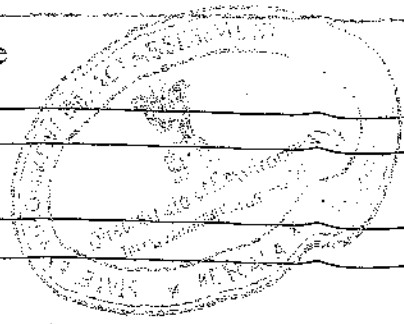
Yes

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 | 101 m. , N |
| Details of Authorised Signatory | Sri. Biju Managing Partner M/s Sahara Granites Marakkavu, Erimayur Post Palakkad District, Kerala - 678546. Phone No. 04922-210100: 210500 Mob. No. 09447010959 Email: saharagranites@gmail.com |
| Details of NABET approved EIA consultant organisation | M/s Enkay Enviro Services Pvt. Ltd. , 24-B, Dadu Marg, Gopal Bari, Ajmer Road, Jaipur, Rajasthan-302001. QCI List at Sr. No. = 47 as per NABET list of accredited consultant organizations, Rev. 13 on 5 th October, 2013. |

The proposal was considered in the 21st SEAC meeting held on 4th November 2013 as agenda item no. 21.12 and the Committee deferred the item for site visit and seeking additional clarifications from the proponent. Subsequently a subcommittee of SEAC inspected the site on 16th November 2013. In the meantime, the proponent submitted the additional clarifications and the same was placed for appraisal in the 25th SEAC meeting held on 14th and 15th February 2014 as agenda item no. 25.41. In view of the site inspection conducted, information provided in the application and on appraisal of the clarifications provided by the proponent, the proposal was recommended for grant of Environmental Clearance under the usual General Conditions for mining projects and along with the following specific conditions :

1. Buffer distance of 15 m to be kept along the village boundary.
2. Overburden stacked on the southern side should be reduced to a lower slope.
3. As agreed in CSR, the periodical maintenance of Erimayur-Kunnathur road and Alathur-Kunnathur road should be made free of cost.

Subsequently the matter was placed for consideration in the 27th SEIAA meeting as agenda item no. KLA/27.25. SEIAA directed the proponent to produce a map showing the exact distance of the quarry from the village boundary and the location map of the overburden stack at the lower slope, and

forwarded the proposal to SEAC to examine all these in detail and report. The proposal was discussed in SEAC meeting held on 12th and 13th August 2014 as agenda item no. 3208 for verification of the same for its satisfactory receipt and for appropriate decisions. The Committee recommended the proposal subject to the following specific conditions in addition to the general conditions stipulated for mining projects:

1. Buffer distance of 15 m to be kept along the village boundary.
2. Overburden stacked on the southern side should be reduced to a lower slope.
3. As agreed in CSR, the periodical maintenance of Erimayur-Kunnathur road and Alathur-Kunnathur road should be made free of cost.

The case was again placed for the SEIAA in the 27th meeting held on 11.03.2014.

The 34th meeting of SEIAA held on 24.10.2014 approved the proposal for issue of Environmental Clearance subject to the general and special conditions as per the recommendations of SEAC and general conditions evolved in the joint meeting of SEAC/SEIAA held on 31.10.2014.

4. Environmental Clearance under EIA notification 2006 is accorded for the proposed quarry project of M/s Sahara Granites, Erimayur I Village, Erimayur Panchayath, Alathur Taluk, Palakkad District, Kerala in Survey No. 35/2 pt., 35/3 and 41 pt. at Erimayur I Village, Erimayur Panchayath, Alathur Taluk, Palakkad District, Kerala subject to all the mining features, Environmental Management Plans as undertaken in the EMP submitted to SEIAA which will form part of this proceedings on if incorporated herein, and the following additional specific conditions, and this general conditions on mining of minor mineral appended hereto: (as modified as per recommendations of the joint meeting of SEAC and SEIAA).

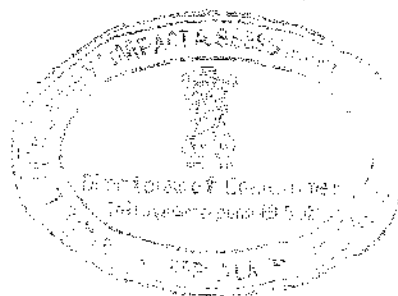
1. Buffer distance of 15 m to be kept along the village boundary.
2. Overburden stacked on the southern side should be reduced to a lower slope.
3. As agreed in CSR, the periodical maintenance of Erimayur-Kunnathur road and Alathur-Kunnathur road should be made free of cost.

- I. 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.
- II. 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.
- III. Instances of violation if any shall be reported to the District Collector, Palakkad to take legal action under the Environment (Protection) Act, 1986.

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

✓ To
Sri. Biju
Managing Partner
M/s Sahara Granites
Marakkavu, Erimayur Post
Palakkad District, Kerala - 678546.
Phone No. 04922-210100; 210500
Mob. No. 09447010959
Email: saharagranites@gmail.com

For Member Secretary (SEIAA)



Copy to:

1. ✓ IA-Division, Monitoring Cell, MoEF Parvathan Bhavan, CGO Complex, Lodhi Road, New Delhi — 110003
2. ✓ MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E/F Wing, II Block Koramangala, Bangalore-560034
3. ✓ The Addl. Chief Secretary to Government, Environment Dept., Government of Kerala
4. ✓ The District Collector, Palakkad
5. ✓ The Director, Dept. of Environment and Climate Change, Govt. of Kerala, Tvm - 24.
6. ✓ The Director, Mining and Geology Department, Government of Kerala
7. ✓ The Secretary, Erimayur Grama Panchayath, Palakkad District
8. ✓ Chairman SELAA Kerala
9. Website
10. Stock file
11. ✓ O/c

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA

GENERAL CONDITIONS (for mining projects)

- (i) Rain Water Harvesting facilities should be installed as per the prevailing provisions of KMRB / KMR, unless otherwise specified.
- (ii) Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.
- (iii) 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.
- (iv) Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.
- (v) Sprinklers shall be installed and used in the project site to contain dust emissions.
- (vi) Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.
- (vii) 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.
- (viii) Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented.
- (ix) The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mine.
- (x) Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.
- (xi) Control measures on noise and vibration prescribed by KSPCB should be implemented.
- (xii) Quarrying activities should be limited to day time as per KSPCB guidelines.
- (xiii) Blasting should be done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency.
- (xiv) A licensed person should supervise/ control the blasting operations.
- (xv) Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.
- (xvi) Overburden materials should be managed within the site and the old quarries, if any, should be reclaimed and restored.
- (xvii) Height of benches should not exceed 5 m and width should not be less than 5 m.
- (xviii) Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.
- (xix) Maximum depth of mining from general ground level at site shall not exceed 10m.
- (xx) No mining operations should be carried out at places having a slope greater than 45°.
- (xxi) 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.
- (xxii) The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.
- (xxiii) Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.
- (xxiv) The transportation of minerals should be done in covered trucks to contain dust emissions.
- (xxv) The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.
- (xxvi) Disposal of spent oil from diesel engines should be as specified under relevant Rules/ Regulations.
- (xxvii) Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department.
- (xxviii) 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.
- (xxix) 200 m buffer distance should be maintained from forest boundaries.
- (xxx) Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating activity.
- (xxxi) All other statutory clearances should be obtained, as applicable, by project proponents from the respective

competent authorities including the for blasting and storage of explosives.

- i) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the Authority.
- ii) The Authority reserves the right to add additional safeguard measures subsequently, if 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.
- iii) 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, 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
- iv) 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.
- v) 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.
- vi) 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.
- vii) 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
- viii) 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.
- ix) 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

For Member Secretary, SEIAA Kerala

