



Proceedings of the State Environment Impact Assessment Authority Kerala

Present: Dr. A.E. Muthunayagam, Chairman; Prof. (Dr.) K.P. Joy, Member; Sri. James Varghese IAS, Member Secretary

Sub: SEIAA Kerala - Proposed quarry project in Sy. Nos. 163/5-1, 5-2, 5, 6-1, 6-2, 4-1, 4-2, 4-3, 4-4, Block No. 40, at Pampady Village, Pampady Panchayath, Kottayam Taluk, Kottayam district, Kerala by M/s Rock Field Estates Pvt. Ltd. – Environmental Clearance under EIA Notification 2006 accorded – Orders issued

Environmental Clearance

No. 71/SEIAA/KL/166/2013

dated, Thiruvananthapuram 07-04-2013

ORDER

The Managing Partner of M/s Rock Field Estates Pvt. Ltd., vide their application received on 16-02-2013, has sought environmental clearance under the EIA Notification, 2006 for the quarry project at Pampady Village, Pampady Panchayath, Kottayam Taluk, Kottayam district, Kerala. The proposal has been appraised by the State Level Expert Appraisal Committee Kerala constituted by the competent authority, as per prescribed procedure in the lights of provisions under the EIA Notification 2006 and subsequent amendments, in its 13th meeting held on 2nd March 2013 AND on the basis of the supporting documents enclosed with the application viz., the Form – 1, questionnaire for mining projects, pre-feasibility report, Environment Management Plan and the additional clarifications furnished in response to the observations, the SEAC Kerala recommended environmental clearance to the project.

It is interalia, noted that the project comes under the Category B, Activity 1(a) of Schedule of EIA Notification 2006. The proposed project site falls within 9°33'4.99" N to 9°33'12.81" N and 76°40'18.50" E to 76°40'25.89" E. The proposed project is for quarrying of 1,70,000 MTA of building granite stone from an area of 2.7931 hectares (27,919 m²) of land. The expected life of mine will be 8.54 years. The proposed project activity involves about 100 % of the pit area for exploring granite building stone. At the end of life of mine, excavated pit area (2.7931 ha) will be reclaimed and rehabilitated by plantation. The proposed project does not involve any underground mining activities. The mining will be done by open cast semi mechanised method of mining. The bench height and width proposed is 5 m and 6 m respectively. The exploitation of mineral is being done from 125 to 105 m MSL in conceptual phase. A total quantity of 13,965 m³ of top soil and 13,965 m³ of overburden will be generated during mining operations. The top soil excavated from the quarry will be dumped separately at pre-determined place and subsequently will be utilized in spreading over reclaimed areas for plantation. Overburden will be utilized for laying internal haul road and will form base in reclamation / plantation. The sewage of 0.8 KLD generated from the mine office will be diverted to the septic tank followed by soak pit. The daily water requirement of 5 KLD will be met from storm water / open well. There will be fugitive emissions generated during material handling, transportation, loading, unloading, etc. that are proposed to be managed by regular water sprinkling on haul road, green belt development and avoiding overloading of vehicles. The mineral produced from the proposed mine will be sent to the crusher plant located within the pit boundary at 14 m towards east direction from the pit boundary for crushing it to the required size before dispatching it to end use.

The SEIAA, after due consideration of the relevant documents and additional clarifications submitted by the project proponent, and in view of the recommendations of SEAC, approved for issuance of Environmental Clearance for the project mentioned above at its 16th meeting held on 15th March 2013. Accordingly, the State Level Environment Impact Assessment Authority (SEIAA) Kerala constituted by Govt. of India vide Notification No. S.O. 2484(E) dt. 3-11-2011 of Ministry of Environment and Forests, Govt. of India, published as Gazette extraordinary No. 2074 on 3-11-2011,

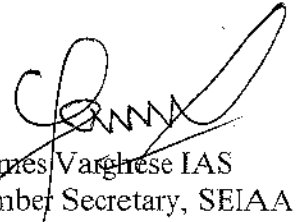
hereby accord necessary Environmental Clearance for the above project as per powers vested with it under the provisions of Environment Impact Assessment Notification – 2006 and subsequent amendments and also under the provisions made in the O.M. No. L-11011/47/2011-IA.II(M) dated 18th May 2012 of the Ministry of Environment and Forests, Government of India, and further subject to strict compliance of the following specific conditions, and the general conditions contained in the Annexure, which shall also form a part of this document.

1. A safe horizontal buffer distance of 50 m should be left as No-Mining-Zone from the KSEB tower line passing near the boundary of lease area or the distance criteria specified by KSEB, whichever is higher.
2. The water flowing from the site to the pond within the lease area should be purified/treated to maintain the drinking water quality standards prescribed by Central Pollution Control Board (CPCB).
3. The revised site map showing the correct location of the crusher unit and the storage of overburden should be submitted to SEAC and approval obtained before starting the quarry operations.

Compliance of the above conditions will be monitored by the Directorate of the Department of Environment and Climate Change, Government of Kerala or its agencies and also by the Regional Office of the Ministry of Environment and Forests, Government of India located at Bangalore. Necessary support for entry and inspection should be provided by the project proponent to the staff of the Directorate and Ministry for monitoring purposes.

The given address of correspondence of the Authorized Signatory of the project is:- Mr. Shibu Mathew, Managing Director, M/s Rockfield Estates (P) Ltd., Palathra Buildings, Thuruthy P.O., Changanacherry, Kerala - 686535; Telephone No: 09048490000 / 09447543210; E-mail: rockfieldestatespvtltd@gmail.com.

Agency with NABET accreditation for EIA is:- M/s Enkay Enviro Services, 24-B, Dadu Marg, Gopal Bari, Jaipur-302001; Tel. No. 0141- 4013996/4023996/4016996; Fax No: 0141-4026996; E-mail: info@enkayenviro.com

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James Varghese IAS
Member Secretary, SEIAA
and Principal Secretary to Government
Environment Department

To

Mr. Shibu Mathew
Managing Director
M/s Rockfield Estates (P) Ltd.
Palathra Buildings, Thuruthy P.O.
Changanacherry, Kerala - 686535.

Copy to :

1. The Principal Secretary, Environment Dept., Government of Kerala, Secretariat
2. The Director, Dept. of Environment and Climate Change, Govt. of Kerala, Tvm - 24.
3. IA-Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi - 110003
4. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E&F Wing, II Block Koramangala, Bangalore-560034
5. Chairman and Members of SEIAA Kerala
6. Chairman, SEAC Kerala
7. Website uploading
- ✓ 8. Stock file

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA GENERAL CONDITIONS (for mining projects)

- (i) Rain water harvesting to collect and utilize the entire water falling in land area should be provided.
- (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 tarred road and open parking areas, if any, inclusive of approach road and internal roads.
- (iv) The project shall incorporate devices for solar energy generation and utilization wherever possible.
- (v) Sprinklers shall be installed and used in the project site to contain dust emissions.
- (vi) The eco-restoration plan submitted with the proposal should be fully implemented.
- (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 agreed upon by the proponent should be implemented.
- (ix) Barbed metal wire fencing around the mining area shall be provided with a height of not less than 5 ft so that falling of animals/human/belongings/dumping of garbages etc. does not happen.
- (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) Blasting should be done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency.
- ii) Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.
- (xiii) Overburden materials should be managed within the site and the old quarries, if any, should be reclaimed and restored.
- (xiv) Height of benches should not exceed 5 m and width should not be less than 5 m.
- (xv) Mats to reduce fly rock blast to a maximum of 15 PPV should be provided.
- (xvi) Mining depth should not exceed beyond 40 m, unless otherwise specified or not below the level of nearest stream bed, whichever is less.
- (xvii) No mining operations should be carried out at places having a slope greater than 45°.
- (xviii) 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.

- (xix) The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.
- (xx) Assurance in the form of affidavit should be given to SEIAA that eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.
- (xxi) Assurance in the form of affidavit should be given to SEIAA that only a maximum of 10 percent of the total mined area shall be retained as water body, which shall be lined properly and further provided with protective wall to prevent accidents.
- (xxii) Garland drains to be provided in the lower slopes around the core area to channelize storm water.
- (xxiii) Debris/ silt traps to be provided to prevent entry of dust and quarry wastes entering the main streams.
- (xxiv) All other statutory clearances should have been obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.
- (xxv) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.
- (xxvi) The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment 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.
- (xxvii) 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.
- (xxviii) The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which 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 should be forwarded to the office of this Authority as confirmation.
- (xxix) 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 clearance letter shall also be put on the website of the company by the proponent.
- (xxx) The proponent shall submit six monthly 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.

- (xxxii) The conditions 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.
- (xxxii) The proponent should provide affidavit that all the conditions stipulated in the EC shall be scrupulously followed.

Sd/-

Member Secretary, SEIAA Kerala