



सत्यमेव जयते

## ***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 at Block No. 34 in Survey Nos. 106/1, 106/2, 106/3, 106/4, 130/2-3, 130/3 at Bharananganam Village, Bharananganam Panchayath, Meenachil Taluk, Kottayam District, Kerala by M/s Bharananganam Industries – Environmental Clearance under EIA Notification 2006 accorded – Orders issued

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### ***Environmental Clearance***

*No. 62/SEIAA/KL/7683/2012*

*dated, Thiruvananthapuram 23-05-2013*

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### **ORDER**

The Managing Partner of M/s Bharananganam Industries, vide their revised application received on 04-01-2013, has sought environmental clearance under the EIA Notification, 2006 for the quarry project at Bharananganam Village, Bharananganam Panchayath, Meenachil 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 11<sup>th</sup> meeting held on 9<sup>th</sup> January 2013 and 13<sup>th</sup> meeting held on 2<sup>nd</sup> 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°45'41.06" & 9°45'54.5311" N and 76°44'1.01" & 76°44'11.4886" E. The proposed project is for quarrying of 2,53,200 TPA of building granite stone from an area of 4.2213 hectare of land. The expected life of mine will be 9 years. The proposed project activity involves about 100% of the pit area for exploring granite building stone. At the end of life of mine pit, the reclaimed area will be suitably planted. 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 6 m. The exploitation of mineral is being done from 260 -170 m MSL in conceptual phase. A total quantity of 12,060 m<sup>3</sup> of top soil and 18,090 m<sup>3</sup> of overburden will be removed 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 roads and will form base in reclamation / plantation. The sewage of 1 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 / 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 SEIAA considered the proposal in its 16<sup>th</sup> meeting held on 15<sup>th</sup> March 2013 and 18<sup>th</sup> meeting held on 23<sup>rd</sup> May 2013. 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 18<sup>th</sup> meeting held on 23<sup>rd</sup> May 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.

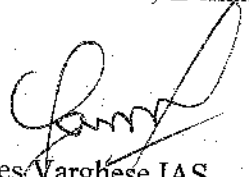
2074 on 3-11-2011, hereby accord necessary Environmental Clearance for the above project as per powers vested with it under the provisions of Environment Impact Assessment Notification - 2006 and subsequent amendments and also under the provisions made in the O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> 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. Quarrying should be limited to Sy. Nos. 106/1, 106/2, 106/3, 106/4, 130/2-3 and 130/3 in an extent of 4.2213 hectares.
2. Quarrying activity should not be carried out in places where slope is greater than 45°.
3. Garland drains should be provided with clarifiers and should be connected with the channels such that loading of water is minimized on slopes.
4. The approach road should have culverts in all channels for storm water management.
5. Rainwater harvesting should be made at the lowermost part of the land.
6. Retaining walls/bunds must have channels to let out storm water.

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. Vincent Sebastian, Managing Partner, M/s Bharananganam Industries, Kandathil House, Kizhapparayar P.O., Palai, Kottayam District, Kerala - 686578; Telephone No: 09447034343.

**Agency with NABET accreditation for EIA is:-** M/s Enkay Enviro Services, 24-B, Basement, Dadu Marg, Gopal Bari, Jaipur-302001; Tel. No. 0141-2363996/4023996; Fax No: 0141-5118996; E-mail: info@enkayenviro.com

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

To

Mr. Vincent Sebastian  
Managing Partner  
M/s Bharananganam Industries, Kandathil House  
Kizhapparayar P.O., Palai  
Kottayam District, Kerala - 686578.

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) Rain Water Harvesting capacity should be installed as per the prevailing provisions of KMBR / KPBR.
- (ix) Corporate Social Responsibility agreed upon by the proponent should be implemented in tune with the conditions specified in the Companies Bill, 2011.
- (x) 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.
- (xi) Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.
- (xii) Control measures on noise and vibration prescribed by KSPCB should be implemented.
- (xiii) Quarrying activities should be limited to day time as per KSPCB guidelines.
- (xiv) Blasting should be done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency.
- (xv) A licensed person should supervise/ control the blasting operations.
- (xvi) Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.
- (xvii) Overburden materials should be managed within the site and the old quarries, if any, should be reclaimed and restored.
- (xviii) Height of benches should not exceed 5 m and width should not be less than 5 m.
- (xix) Mats to reduce fly rock blast to a maximum of 15 PPV should be provided.
- (xx) Mining depth should not exceed beyond 40 m, unless otherwise specified or not below the level of nearest stream bed, whichever is less.
- (xxi) No mining operations should be carried out at places having a slope greater than 45°.
- (xxii) 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.
- (xxiii) The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.
- (xxiv) 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.

- (xxv) 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.
- (xxvi) Garland drains to be provided in the lower slopes around the core area to channelize storm water.
- (xxvii) Debris/ silt traps to be provided to prevent entry of dust and quarry wastes entering the main streams.
- (xxviii) 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.
- (xxix) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.
- (xxx) 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.
- (xxxi) 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.
- (xxxii) 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](http://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.
- (xxxiii) 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.
- (xxxiv) 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.
- (xxxv) 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.
- (xxxvi) 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.

Sd/-

Member Secretary, SEIAA Kerala