



Validity expires on 30.10.2018

Proceedings of the State Environment Impact Assessment Authority Kerala
Present : Prof. (Dr.) K.P. Joy, Member (in chair) and Sri. P.K. Mohanty IAS, Member Secretary

Sub: SEIAA Kerala - Quarry project in Sy. Nos. 351/1-1 part and 351/1-2 at Aikkaranad South Village, Poothrikka Panchayat, Kunnathunadu Taluk, Ernakulam District, Kerala by M/s Poovelil Aggregates – Environmental Clearance under EIA Notification 2006 accorded – Orders issued

Environmental Clearance

No. 89/SEIAA/KL/1049/2013

dated, Thiruvananthapuram 22.11.2013

ORDER

Mr. Navin Cherian, Sole Proprietor, M/s Poovelil Aggregates, vide his application received on 17.04.2013, has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. Nos. 351/1-1 part and 351/1-2 at Aikkaranad South Village, Poothrikka Panchayat, Kunnathunadu Taluk, Ernakulam District, Kerala for lease area of 1.4920 hectares out of the six hectares of land owned by the proponent. The proposed quarry site is private land and the land is possessed in the name of M/s Poovelil Aggregates. Forest land is not involved in the project. It is interalia, noted that the project comes under the Category B, Activity 1(a), (i) of Schedule of EIA Notification 2006. The proposed project site falls within 9°58'41.73" N to 9°58'46.04" N and 76°26'54.26" E to 76°27'00.37" E. The proposed project is for quarrying of 90,000 MTA of building stone from an area of 1.4920 hectares of land. The expected life of mine will be 3.4 years.

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 15th meeting held on 4th May 2013, 19th meeting held on 9th and 10th September 2013 and in its 20th meeting held on 5th October 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.

The proposed project activity involves about 100 percent of the pit area for exploring granite building stone. At the end of life of mine, excavated pit will be reclaimed and rehabilitated by plantation with native species so as to restore the natural ecosystem leaving no void. The proposed project does not involve any underground mining activities. The mining will be done by open cast semi mechanized method. The bench height and width proposed is 5 m. The ultimate depth of mine workings is estimated to be 21 m MSL. Part of the proposed land is already under mining and there is no top soil

and overburden in those areas. The daily water requirement of 5 KLD will be met from open well and storm water pond. There will be fugitive emissions generated during material handling, transportation, loading, unloading, among others that are proposed to be managed by regular water sprinkling on haul road, green belt development and avoiding overloading of vehicles. The sewage of 0.8 KLD generated from the mine office will be diverted to the septic tank followed by soak pit. The total power requirement of 75 kW will be drawn from diesel engine. The total cost of the project is Rs. 1.65 Crores.

The SEIAA considered the proposal in its 18th meeting held on 23rd May 2013 and in its 23rd meeting held on 31st October 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 23rd meeting held on 31st October 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 quarry in Sy. Nos. 351/1-1 part and 351/1-2 at Aikkaranad South Village, Poothrikka Panchayat, Kunnathunadu Taluk, Ernakulam District, Kerala by M/s Poovelil Aggregates 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. The existing pit should be completely reclaimed and eco-restoration should be taken up at the own cost of the project proponent.
2. Quarrying activities, at any later stages, should not be extended to any part of 6 hectares of land owned by the proponent other than conducting quarrying in the survey numbers mentioned in the present proposal and the area in which mining is done at present.
3. Mining should be done in a top to bottom manner creating benches of 5m x 5 m.

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. In case of non-compliance of conditions, noted, if any, the Director, Department of Environment and Climate Change shall report the matter to the District Collector concerned to take necessary action under Environment Protection Act 1986.

The given address of correspondence of the Authorized Signatory of the project is:- Mr. Navin Cherian, Sole Proprietor, M/s Poovelil Aggregates, Poovelil House, Vadayampady P.O., Puthenkurisu, Ernakulam District, Kerala – 682308; Telephone No: 0484-2760237; Mob: No. 9745034462; E-mail: poovelilrocks@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

The validity of EC is for a period of 5 years.

Sd/-

P.K.Mohanty IAS
Member Secretary, SEIAA
and Addl. Chief Secretary to Government
Environment, Forest & Wildlife Departments

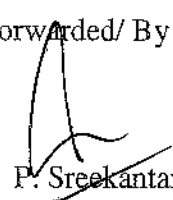
To

Mr. Navin Cherian
Sole Proprietor
M/s Poovelil Aggregates
Poovelil House, Vadayampady P.O.
Puthenkurisu, Ernakulam District
Kerala – 682308.

Copy to :

1. IA-Division, Monitoring Cell, MoEF, Paryavaran 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 Principal Secretary to Government, Local Self Government Department
5. The District Collector concerned
6. The Director, Dept. of Environment and Climate Change, Govt. of Kerala, Tvm – 24.
7. The Director, Mining and Geology Department, Government of Kerala
8. Chairman and Members of SEIAA Kerala
9. Chairman, SEAC Kerala
10. Website uploading
- ✓ 11. Stock file

Forwarded/ By Order


P. Sreekantan Nair
Director, DoECC &
Secretary SEAC Kerala

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

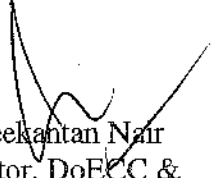
- (i) Rain Water Harvesting capacity should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified elsewhere.
- (ii) Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.
- (iii) Suitable avenue trees should 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) 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 in tune with the conditions specified in the Companies Act, 2013.
- (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) 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) Mining depth should not exceed beyond 40 m, unless otherwise specified or not below the level of nearest stream bed, whichever is less.
- (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) Norms of Kerala State Pollution Control Board should be adhered to regarding distance criteria of residences, roads, rivers and worship places.
- (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 have been obtained before initiating activity.
- (xxxi) 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.
- (xxxii) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.
- (xxxiii) 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.
- (xxxiv) 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.
- (xxxv) 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.
- (xxxvi) 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.
- (xxxvii) 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.
- (xxxviii) 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.
- (xxxix) 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

Approved/ For issue


P. Sreekantan Nair
Director, DoECC &
Secretary SEAC Kerala