



सत्यमेव जयते

Validity expires on 30.10.2018

## ***Proceedings of the State Environment Impact Assessment Authority Kerala***

*Dr. A.E. Muthunayagam, Chairman; Prof. (Dr.) K.P. Joy, Member; Sri. P.K. Mohanty IAS, Member Secretary*

Sub: SEIAA Kerala - Proposed quarry project in Survey Nos. 160/4, 160/5, 161/7, 161/8-1, 161/8-2, 161/8-5, 160/1, 160/1-1, 160/1-2, 160/1-3, 160/1-4, 160/2, 160/6, 160/3 and 160/7 at Thottappuzhessery Village, Thottappuzhessery Panchayath, Thiruvalla Taluk, Pathanamthitta district, Kerala by M/s Shanio Metal Crushing Unit – Environmental Clearance under EIA Notification 2006 accorded – Orders issued

### ***Environmental Clearance***

No. 75/SEIAA/KL/170/2013

dated, Thiruvananthapuram 31.10.2013

### **ORDER**

Mr. A. J. Abraham, Managing Partner of M/s Shanio Metal Crushing Unit, vide their revised application received on 16-02-2013, has sought environmental clearance under the EIA Notification, 2006 for the proposed quarry project in Survey Nos. 160/4, 160/5, 161/7, 161/8-1, 161/8-2, 161/8-5, 160/1, 160/1-1, 160/1-2, 160/1-3, 160/1-4, 160/2, 160/6, 160/3 and 160/7 at Thottappuzhessery Village, Thottappuzhessery Panchayath, Thiruvalla Taluk, Pathanamthitta district, Kerala. The proposed quarry site is a private land and the land is possessed in the name of M/s Shanio Metal Crushing Unit. No forest land is involved in the present 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 the coordinates 9°22'1.25" N to 9°22'9.85" N and 76°42'43.76" E to 76°42'52.64" E. The proposed project is for quarrying of 1,92,000 MTA of building granite stone from an area of 3.2026 hectares of land. The expected life of mine will be 10.93 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 13<sup>th</sup> meeting held on 2<sup>nd</sup> March 2013 and 18<sup>th</sup> meeting held on 3<sup>rd</sup> August 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 % of the pit area for exploring granite building stone. At the end of life of mine, excavated pit (3.2026 ha) will be fully reclaimed and rehabilitated by plantation. The proposed project does not involve any underground mining activities. The mining will be done by open cast semi mechanized method of mining. The bench height and width proposed is 5 m. The ultimate depth of the mine workings is estimated to be 95 MSL. A total quantity of 1,17,695 m<sup>3</sup> of

top soil and 87,787 m<sup>3</sup> of overburden will be removed during the 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 daily water requirement of 5 KLD will be sourced from the storm water pond / open well.. The sewage of 0.8 KLD generated from the mine office will be diverted to the septic tank followed by soak pit. 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 total power requirement of 75 kW will be drawn from diesel engine. The total cost of the project is ₹ 3.50 Crores.

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 21<sup>st</sup> meeting held on 23<sup>rd</sup> August 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 proposed quarry project in Survey Nos. 160/4, 160/5, 161/7, 161/8-1, 161/8-2, 161/8-5, 160/1, 160/1-1, 160/1-2, 160/1-3, 160/1-4, 160/2, 160/6, 160/3 and 160/7 at Thottappuzhessery Village, Thottappuzhessery Panchayath, Thiruvalla Taluk, Pathanamthitta district, Kerala by M/s Shanio Metal Crushing Unit 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. 100 m buffer distance to be maintained for quarrying from the boundary of the temple.
2. Green belt development should involve indigenous species.
3. Afforestation should be done compensating for the number of species likely to be destroyed due to quarrying.
4. Spent oil from DG sets should be disposed off as per Hazardous Waste (Management & Handling) Rules, 1989 and 2003 and sent to stores for disposal through authorized agents.
5. Amount should be earmarked for CSR components as per the provisions of Companies Bill, 2011.

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. A. J. Abraham, Managing Partner, M/s Shanio Metal Crushing Unit, Kuriyannoor P.O., Thiruvalla, Pathanamthitta District, Kerala - 689550; Mob: No. 09447802447; E-mail: sajuayroor@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; Email: info@enkayenviro.com

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

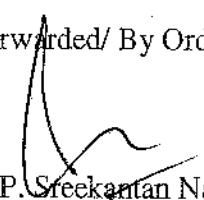
To

Mr. A. J. Abraham,  
Managing Partner  
M/s Shanio Metal Crushing Unit  
Kuriyannoor P.O., Thiruvalla  
Pathanamthitta District, Kerala - 689550.

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, 4<sup>th</sup> 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. Sreekanth Nair  
Director, DoECC &  
Secretary SEAC Kerala

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

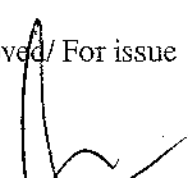
- (i) Rain Water Harvesting capacity should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified elsewhere.
- (ii) Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.
- (iii) Suitable avenue trees should 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](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 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