

Validity expires on 13.02.2025

**PROCEEDINGS OF THE ADMINISTRATOR, STATE  
ENVIRONMENT IMPACT ASSESSMENT AUTHORITY,  
THIRUVANANTHAPURAM**

(Present. SHAHER BANU)

Sub: SEIAA-Environmental clearance for the proposed granite building stone quarry project in Re-Sy. No. 165/15, 165/3-1, 165/3, 165/13, 165/1, 165/14, 165/14-1, 165/14-2, 165/2-1, 170/11, 170/3, 164/1-1, 164/1-5 in Thekkada Village, Nedumangad Taluk, Thiruvananthapuram District, Kerala by Mr. Biju Kumar.K. - Granted - Orders issued

**State Environment Impact Assessment Authority, Kerala**

No. 1250/EC2/2019/SEIAA

dated, Thiruvananthapuram 14.02.2020

- Ref: 1. Application received on 12.02.2019 from Mr. Biju Kumar.K., Ponnurangalam, T.C.10/1283, Khadi Board Lane, Melathumela, Vattiyoorkavu.P.O., Thiruvananthapuram - 695004
2. Minutes of the 93<sup>rd</sup> SEAC Meeting held on 21<sup>st</sup> FEBRUARY 2019.
  3. Minutes of the 100<sup>th</sup> SEAC meeting held on 11<sup>th</sup> & 12<sup>th</sup> JULY, 2019.
  4. Minutes of the 102<sup>nd</sup> SEAC meeting held on 26<sup>th</sup> & 27<sup>th</sup> AUGUST, 2019.
  5. Minutes of the 106<sup>th</sup> SEAC Meeting held on 28<sup>th</sup>, 29<sup>th</sup> & 30<sup>th</sup> November, 2019.
  6. Minutes of the 107<sup>th</sup> SEAC meeting held on 24<sup>th</sup> DECEMBER, 2019.
  7. Minutes of the 101<sup>st</sup> SEIAA meeting held on 17<sup>th</sup> & 18<sup>th</sup> January 2020.
  8. G.O(Rt.) No.29/2019/Env dt.12.04.2019.

**ENVIRONMENTAL CLEARANCE NO. 20/2020**

Mr. Biju Kumar.K., Ponnurangalam, T.C.10/1283, Khadi Board Lane, Melathumela, Vattiyoorkavu.P.O., Thiruvananthapuram - 695004, vide the hardcopy of application received on 12.02.2019, has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Re-Sy. No. 165/15, 165/3-1, 165/3, 165/13, 165/1, 165/14, 165/14-1, 165/14-2, 165/2-1, 170/11, 170/3, 164/1-1, 164/1-5 in Thekkada Village, Nedumangad Taluk,

Thiruvananthapuram District, Kerala for an area of 2.0008 hectares. The project comes under Category B & Schedule : 1 (a) of EIA Notification 2006.

2. The proposed project site falls within Latitude 08°38' 11.41" N to 08°38' 09.82" N to Longitude 76° 57' 52.73" E to 76° 57' 52.49" E. The lease area consists of 2.0008 hectares. The proposed capacity is 1,25,000 MT per Annum. The life of mine is about 5 years. The total project cost is 75 lakhs.

3. The proposal was placed in the 93<sup>rd</sup> SEAC Meeting held on 21<sup>st</sup> FEBRUARY 2019. The proponent was also present during the meeting. The Committee entrusted Dr.C.Bhaskaran, Chairman, SEAC & Dr.R. Ajayakumar Varma for site inspection and the sub committee visited the site on 20.04.2019.

4. The proposal was placed in the 100<sup>th</sup> SEAC meeting held on 11<sup>th</sup> & 12<sup>th</sup> JULY, 2019. The Committee directed the proponent to submit the following documents/ details:

1. There is a quarry on the western side of the proposed quarry and the distance to it from the Boundary Pillar BP25 is around 30m. A crusher operates on the north-west corner of the existing quarry. The Certificate obtained from the Village Officer does not give clarity on the cluster situation. Therefore, 'No Cluster Certificate' from the M&G department is required for assessment.
2. The distance of residential house located off BP2 seems to be less than 50m as per the google image. Accurate distance is not decipherable from the Survey Plan. There is a temple on the south-eastern corner of the proposed lease area at a distance of 65.2m off BP9, a building at a distance of 52m off BP7 and another two buildings at a distance respectively of 54.1m and 54.6m off BP6 and BP5. During the site visit, the proponent informed that the plots in which the temple and buildings are located are pledged to the proponent, but the proof is inadequate.
3. The existing quarry face adjacent to the proposed quarry is steep cut and dangerously poised.
4. The surrounding areas of the proposed site is characterised by mixed trees and rubber.
5. It is proposed to provide garland drains all along the periphery of the quarry and it is proposed to be routed through silt settling pit to remove suspended soil and treated water will be discharged to natural water course. The proposed garland drains, silt traps, water storages and the existing natural water course are not found depicted in

the drainage plan map. The slope of the possible discharge location is high and careful planning is required to collect and transport the overland flow as well as to set up silt traps, which is lacking in the proposal.

6. The area designated for OB storage is close to the outlet drain and there is every chance of silt outflow to the nearby land and water bodies. A detailed plan for protective measures for the OB storages as well as preventive measures for silt outflow is required.
7. Proponent claimed that abandoned pits will be used for water storage that could be utilized for irrigation and plantation, but no such feasible water storages are found in the site.
8. It is projected that the daily water requirement is 10KLD. It is stated that water for dust suppression and afforestation shall be drawn from the nearby abandoned quarry. No such abandoned quarry is noticed in the area.
9. It is also proposed that drinking water will be made available from open wells and tube wells. The feasibility report for the same is not found included in the application.
10. The mining of the proposed quantity of rock will lead to the loss of a portion of the existing hillocks. All the hillocks, especially those located in the southern midland region of the state has added significance to micro-climate of the region.
11. The amount earmarked as CER/CSR should be in agreement with the guidelines.

The proponent submitted the documents dated 29.07.2019 as per the 100<sup>th</sup> SEAC meeting held on 11<sup>th</sup> & 12<sup>th</sup> JULY, 2019.

5. The proposal was placed in the 102<sup>nd</sup> SEAC meeting held on 26<sup>th</sup> & 27<sup>th</sup> AUGUST, 2019. The Committee decided to obtain the following documents from the proponent:

1. Non-cluster certificate furnished is ambiguous since it states that there is a working quarry nearby. This has to be clarified
2. Feasibility report for new open well & tube well has to be furnished

The proponent submitted the documents on 18.11.2019 as per the decision of 102<sup>nd</sup> SEAC meeting.

6. The proposal was placed in the 106<sup>th</sup> SEAC Meeting held on 28<sup>th</sup>, 29<sup>th</sup> & 30<sup>th</sup> November, 2019. The Committee decided to direct the proponent to submit the following documents:

1. A sworn affidavit by the proponent stating that the existing quarry adjacent to the proposed one and the crusher are not operative and that the mine is closed in accordance with the mine closure plan.
2. A feasibility certificate regarding ground water availability in the proposed site from a qualified geologist.

The proponent submitted the documents as per the decision of 106<sup>nd</sup> SEAC meeting.

7. The proposal was placed in the 107<sup>th</sup> SEAC meeting held on 24<sup>th</sup> DECEMBER, 2019. The Committee decided to recommend for issuance of EC subject to the General Conditions.

8. The proposal was placed in the 101<sup>st</sup> SEIAA meeting held on 17<sup>th</sup> & 18<sup>th</sup> January 2020. Authority decided to issue EC for a period of 5 years for the quantity mentioned in the approved Mining Plan subject to the following specific conditions in addition to the general conditions.

1. *As per the directions contained in the latest OM F.No.22-34/2018-IA.III dated 16<sup>th</sup> January 2020 issued by MoEF & CC, in obedience to the directions of the Honourable Supreme Court, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the half yearly compliance report which will be monitored by SEAC/Regional Office, MoEF&CC, Gol, Bangalore at regular intervals.*
2. *From the inspection report it is seen that there are 5 buildings and one temple are located within 50-65 meters from quarry site. Proponent shall take precautions to see that functioning of this quarry will not affect the peaceful living of residents and functioning of Temple.*
3. *Activities relating to Corporate Environmental Responsibilities amounting to Rs. 1.5 lakhs shall be carried out leading to protection and promotion of environment including waste management in the project district as per OM F.No.22-65/2017-IA-III dt.01.05.2018 of MoEF& CC as directed by Director, Directorate of Environment & Climate Change and supervised by District Collector.*

4. *The proponent shall carry out quarrying as per the approved Mining Plan and the proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
5. *In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife."*

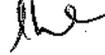
9. Environmental Clearance as per the EIA Notification 2006 is hereby accorded for the granite building stone quarry project of Mr. Biju Kumar.K., Ponnurangalam, F.C.10/1283, Khadi Board Lane, Melathumela, Vattiyoorkavu.P.O., Thiruvananthapuram – 695004, in Re-Sy. No. 165/15, 165/3-1, 165/3, 165/13, 165/1, 165/14, 165/14-1, 165/14-2, 165/2-1, 170/11, 170/3, 164/1-1, 164/1-5 in Thekkada Village, Nedumangad Taluk, Thiruvananthapuram District, Kerala for an area of 2.0008 hectares for the quantity mentioned in the Mining plan, for a period of five years subject to the specific conditions in para 8 above, all the environmental impact mitigation and management measures undertaken by the project proponent in the Form 1, EMP, PFR and Mining plan submitted to SEIAA. The assurances and clarifications given by the proponent will be deemed to be a part of these proceedings as if incorporated herein. Also the general conditions for projects stipulated for mining (items 1 to 48), appended hereto will be applicable and have to be strictly adhered to.

10. The Clearance issued will also be subject to full and effective implementation of all the undertakings given in the application form, mitigation measures as assured in the Environment Management Plan and the mining features including progressive mine closure plan as submitted with the application and relied on for grant of this clearance. The above undertakings and the conditions and the undertakings in Chapter 4 (Mining), Chapter 5 (Blasting), Chapter 6 (Mines Drainage), Chapter 7 (Stacking of Mineral rejects and Disposal of waste) Chapter 11 (Environment Management Plan) & Part C (Progressive Mine Closure Plan) of the Mining Plan as submitted will be deemed to be part of this proceedings as conditions as undertaken by the proponent, as if incorporated herein.

11. Validity of the Environmental Clearance will be five years from the date of this clearance, subject to inspection by SEIAA on annual basis and compliance of the conditions, subject to earlier review of E.C in case of violation or non-compliance of conditions or genuine complaints from residents within the security area of the quarry.

12. Compliance of the conditions herein will be monitored by the State Environment Impact Assessment Authority or its authorised offices and also by the regional office of the Ministry of Environment & Forests, Govt. of India, Bangalore.

- i. 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.
- ii. Instances of violation if any shall be reported to the District Collector, Thiruvananthapuram
- iii. The Half Yearly Compliance Report (HYCRs) with its contents of a covering letter, compliance report and environmental monitoring data has to be in PDF format merged into a single document. The email should clearly mention the name of the project, EC No and date, period of submission and to be sent to the Regional Office of MoEFF & CC by email only at email ID [rosz.bng-mefcc@gov.in](mailto:rosz.bng-mefcc@gov.in) . Hardcopy of HYCRs shall not be acceptable.
- iv. The given address for correspondence with the authorised signatory of the project is Mr. Biju Kumar.K., Ponnurangalam, T.C.10/1283, Khadi Board Lane, Melathumela, Vattiyoor kavu.P.O., Thiruvananthapuram – 695004.

  
SHAHER BANU

Administrator, SEIAA

To,

Mr. Biju Kumar.K.  
Ponnurangalam  
T.C.10/1283  
Khadi Board Lane  
Melathumela  
Vattiyoor kavu.P.O.  
Thiruvananthapuram – 695004

Copy to,

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4<sup>th</sup> Floor, E&F Wing, II Block, Koramangala, Bangalore-560034.(through c-mail: rosz.bng-mefcc@gov.in)
2. The Principal Secretary to Government, Environment Department, Government of Kerala
3. The Director, Directorate of Environment & Climate Change, 4th Floor KSRTC Bus Terminal, Thampanoor, Thiruvananthapuram, Kerala 695001.
4. District Collector, Thiruvananthapuram
5. Director, Mining & Geology, Thiruvananthapuram -4.
6. The Member Secretary, Kerala State Pollution Control Board
7. District Geologist, Thiruvananthapuram
8. Tahsildhar, Nedumangad Taluk, Thiruvananthapuram District
9. Village Officer, Thekkada Village, Thiruvananthapuram District
10. Chairman, SEIAA.
11. Website.
12. S/f
13. O/c

SEIAA

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

1. A separate environmental management and monitoring cell with qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
2. Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, including of approach road and internal roads.
3. Sprinklers shall be installed and used in the project site to contain dust emissions.
4. Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.
5. In view of the deep pits left after the excavation, stacking at maximum top level should be carried out.
6. Corporate Environment Responsibility agreed upon by the proponent should be implemented.
7. The project proponent shall comply the conditions stipulated by the statutory authorities concerned.
8. Tarring /multiple options on the access roads shall be undertaken so as to reduce dust pollution during movement of vehicle.
9. Overburden materials should be managed within the site and used for reclamation of mine pit as per mine closure plan / specific conditions.
10. Height of benches should not exceed 5 m and width should not be less than 5 m, if there is no mention in the mining plan/specific condition.
11. Ground level should be fixed in individual cases separately
12. No mining operations should be carried out at places having a slope greater than 45°.
13. 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. This condition is applicable only in such cases if a crusher is adjacent to the quarry.
14. The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.
15. Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.
16. The transportation of minerals should be done in covered trucks to contain dust emissions. The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project. SEAC should assess the number of trees in each project site before the issuance of EC so as to ensure the promptness in planting.
17. Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department.
18. 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.
19. 50 m buffer distance should be maintained from forest boundaries.
20. Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating mining activity.
21. All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.
22. In the case of any change(s) in the scope of the project, extent quantity, process of mining technology involved or in any way affecting the environmental parameters/impacts as assessed, based on which only the E.C is issued, the project would require a fresh appraisal by this Authority, for which the proponent shall apply and get the approval of this Authority.
23. 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.
24. 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.

25. 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 State Environment Impact Assessment Authority (SEIAA) office 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.
26. The Environmental Clearance shall be put on the website of the company by the proponent.
27. Proponent shall submit half yearly reports in soft copy and SEIAA will upload it on the website.
28. 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
29. 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.
30. No change in mining technology and scope of working should be made without prior approval of the SEIAA, No further expansion or modifications in the mine shall be carried out without prior approval of the SEIAA, as applicable.
31. The Project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken.
32. The top soil, if any, shall temporarily be stored at earmarked site(s) only for the topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.
33. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.
34. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM<sub>10</sub> and PM<sub>2.5</sub> such as haul Road, loading and unloading points and transfer points – it shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
35. Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.
36. Measures should be taken for control of noise levels below 85 dBA in the work environment.
37. The funds earmarked for environmental protection measures and CER activate should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the State Environment Impact Assessment Authority (SEIAA) office.
38. The Regional Office of MOEF & CC located at Bangalore shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (S) of the Regional Office by furnishing the requisite data/information/monitoring reports.
39. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
40. Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
41. The SEIAA may revoke or suspend the order, for non implementation of any of the specific or this implementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

42. 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.
43. The Environmental Clearance will be subject to the final order of the courts in any pending litigation related to the land or project, in any court of law.
44. The mining operation shall be restricted to above ground water table and it should not intersect ground water table.
45. All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution taking centre. Washing of all vehicles shall be inside the lease area'
46. Project proponent should obtain necessary prior permission of the competent authorities for drawal of requisite quantity of surface water and ground water for the project.
47. Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly reports to SEIAA.
48. Occupational health surveillance program of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.

  
**Administrator, SEIAA**

