



सत्यमेव जयते

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

*Present : Prof. (Dr.) K.P. Joy, Chairman; Dr. J. Subhashini, Member and Sri. P. Mara Pandiyan, I.A.S.,  
Member Secretary.*

**Sub:** SEIAA- Environmental clearance for the proposed quarry project in Sy. Nos. 364/16/40, 364/10/42, 364/11/43, 364/16/11, 364/16/27, 364/16/25, 364/16/32, 364/16/8, 364/16/37, 364/16/48, 364/17/18, 364/17/16, 364/16/4/30, 364/16/5/5, 364/16/6/6, 364/16/7/7, 364/16/8/34, 364/16/9/38, 364/21/22P and 364/21P at Mulayam Village, Nadathara Panchayath, Thrissur Taluk, Thrissur District by Sri. Jenny John -Granted- Orders issued.

### **STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY**

**No. 608/SEIAA/EC1/4635/2014**

***dated, Thiruvananthapuram 01-06-2016***

- Read:-**
1. Application dated 23.09.2014 submitted by Sri. Jenny John, Managing Director, M/s Valakkavu Granites Pvt. Ltd., Vattappara, Valakkavu (Via.), P.O., Mulayam, Thrissur - 680751
  2. Minutes of the 46<sup>th</sup> meeting of SEAC held on 29/30-09-2015.
  3. Minutes of the 53<sup>th</sup> meeting of SEAC held on 25/26-02-2016.
  4. Minutes of the 52<sup>nd</sup> meeting of SEIAA held on 29-04-2016.

### **Environmental Clearance No. 70/2016.**

Sri. Jenny John, Managing Director, M/s Valakkavu Granites Pvt. Ltd., Vattappara, Valakkavu (Via.), P.O., Mulayam, Thrissur - 680751 vide his application received on 25/09/2014 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. Nos. at 364/16/40, 364/10/42, 364/11/43, 364/16/11, 364/16/27, 364/16/25, 364/16/32, 364/16/8, 364/16/37, 364/16/48, 364/17/18, 364/17/16, 364/16/4/30, 364/16/5/5, 364/16/6/6, 364/16/7/7, 364/16/8/34, 364/16/9/38, 364/21/22P and 364/21P at Mulayam Village, Nadathara Panchayath, Thrissur Taluk & District for an area of 3.2457 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II

(M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category

B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dated 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares. Other details of the proposal are as follows:

Basic Information of the Project		
Name of project		M/s VALAKKAVU GRANITES PVT. LTD.
Brief description of the project		Quarry project with an area of 3.2457 ha. & production capacity of 1,20,000 MTA
Category/Subcategory & Schedule		Category B/B/2 & Schedule 1 (a)
Location Sy no/ district, Taluk/ village etc.		Survey Nos. 364/16/40, 364/10/42, 364/11/43, 364/16/11, 364/16/27, 364/16/25, 364/16/32, 364/16/8, 364/16/37, 364/16/48, 364/17/18, 364/17/16, 364/16/4/30, 364/16/5/5, 364/16/6/6, 364/16/7/7, 364/16/8/34, 364/16/9/38, 364/21/22P, 364/21P, Mulayam Village, Nadathara Grama Panchayat, Thrissur Taluk & District, Kerala
GPS co-ordinates		Latitude (N) 10 <sup>0</sup> 31'17.69" to 10 <sup>0</sup> 31'10.28"
		Longitude (E) 76 <sup>0</sup> 18'34.54" to 76 <sup>0</sup> 18'25.82"
for Mining projects	Extent of area (in hectares)	3.2457 ha.
	Minimum and maximum height of excavation (MSL)	130 m MSL and 80 m. MSL
	Life of mine proposed	10 Years
	Ultimate depth of mining (in MSL)	80 m. MSL
	Distance from the adjacent quarry	There are two quarries, one with mine lease for an area of 3.5 ha. (St Joseph Granite) and another with short term permit of 0.20 ha. (Mr. Baiju) operating within 500 m. radius.
	Capacity of production	1,20,000 MTA
	Details of Project Cost	Rs. 7 Crores.
	Financial Statement including funding source and details of insurance	Insurance = Insurance to the quarry workers provided by the insurance company. Source of funding = Own source & loan from bank.
ABOUT THE PROJECT		
Environmental parameters considered		
WATER		
Water requirement & sources		The total water requirement is about 17 KLD in which 2 KLD is for domestic which would be sourced from open well, 12 KLD for dust suppression system in mine as well as ancillary unit and 3 KLD for plantation purposes and will be sourced from storm water pond.
RWH units proposed		Rain water collection pond of adequate capacity
Facilities for liquid waste treatment		If any should be diverted to the septic tank followed by soak pit.

Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No impoundment, damming, culverting, realignment or other changes to the hydrology of surface water courses.
Water quality meeting requirements	Water quality should be within the prescribed limit as per rules. Water quality meeting requirements after the treatment of water (filtration, disinfection & sedimentation).
Provisions for use of recycled water	Water should be recycled and used for irrigation, septic tank etc.
<b>LAND</b>	
Proximity to forest lands	Mannamangalam, 3 km.
Is the land assigned for any other special purpose; Give details	No as stated by the proponent
Access road to the site -Width & Condition	7 m. wide, tarred road, N
Storage of explosives /hazardous substances	Explosives should be stored and used only as per Explosive Act / Rules.
Topographic features/ slope	The topography of the lease area is hilly area covered with native tree, climbers, grass, shrubs, herbs etc. Slope = towards north side.
Proneness of the area for landslides	No
Significant land disturbance resulting in erosion, subsidence & instability	No
Municipal solid wastes, top soil, overburden etc.	<ul style="list-style-type: none"> <li>• It is estimated that around 11,360 m<sup>3</sup> of top soil will be generated from the proposed pit, which should be properly stacked and be utilized for plantation over the reclaimed areas.</li> <li>• It is also estimated that around 4,869 m<sup>3</sup> of overburden is generated which will be utilized in developing internal roads and at the end use the same will be used as soil base for reclamation.</li> </ul>
<b>AIR</b>	
Air quality meeting requirements	Air quality should be monitored periodically as per Norms and Mitigation Measures should be carried out to prevent dust and Air propagation in to air. Air quality should comply with the requirements as per rules.
Air pollution control measures: By deposition of pollutants emitted to air into the land or into water	<p>During mining operation there will be dust emissions mainly from excavation, loading, unloading, mineral handling, transportation and mobile sources. The following measures will be taken:</p> <ul style="list-style-type: none"> <li>• Laying of haul road as per the standards, black topping of permanent haul road to avoid or eliminate air borne dust.</li> <li>• Wet drilling method should be adopted to avoid dust generation.</li> <li>• Drill machines should be equipped with dust collectors.</li> <li>• Use of appropriate explosives and avoiding overcharging of blast holes.</li> </ul>

	<ul style="list-style-type: none"> <li>• Controlled blasting.</li> <li>• Covered transportation.</li> <li>• Limiting the speed of vehicles.</li> <li>• Watering of haul road at regular intervals.</li> <li>• Provision of dust filters and mask to workers.</li> <li>• Provision of green belt along the periphery of the lease area.</li> <li>• Periodical monitoring of Ambient Air Quality.</li> <li>• Adopting latest green technology.</li> <li>• Use of bag filters at all traverses points.</li> </ul> <p>Closed conveyor system with water sprinkling arrangements.</p>
Noise level meeting requirements	Periodic air quality monitoring will be carried out in mining area and nearby villages to ensure ambient air quality with in permissible limits. Noise quality should comply with the requirements as per rules.
Likely emissions affecting environment	Diesel engine emissions & emissions from movement of vehicles like dumpers, trucks, tankers etc. will generate. It should be properly controlled without affecting the quality of air.
<b>ENERGY</b>	
Energy requirement and source	The total power requirement will be 75 kW for compressions, which will be drawn from diesel engine.
Extent of usage of alternative energy resources	Nil (Alternate energy source such as solar panels etc. should be utilized.)
<b>BIODIVERSITY</b>	
Presence of any endangered species or red listed category	Nil.
Loss of native species and genetic diversity	For the quarrying activity all of native tree species all of native tree species, shrubs, herbs, climbers etc. existing at project site will be cleared. The site should be revegetated (eco-restoration) after mining with the native species.
Likely displacement of fauna	Nil. If any should be properly protected and rehabilitated.
Any introduction of alien / invasive species	Nil.
<b>SOCIAL ASPECTS</b>	
Proximity to nearest habitation	104 m. , NE
<b>CSR components suggested</b>	
CSR related to the project	<p>In the following sectors:</p> <ol style="list-style-type: none"> <li>1. Education</li> <li>2. Health</li> <li>3. Women Empowerment and also as per Chapter 4.7.9 of PFR</li> </ol>
<b>GENERAL</b>	
Eco restoration programmes	As part of the year wise programme of afforestation for the life of mine, about 3,000 trees will be planted to restore the eco-system to its original form to a maximum extent by designing green cover with the same native species.

Sufficiency of parking spaces/ traffic management	Yes.
Litigation/court cases, if any, against the project (provide details)	Nil as informed by the proponent.
Details of Authorised Signatory	Sri. Jenny John, Managing Director, M/s Valakkavu Granites Pvt. Ltd., Vattappara, Valakkavu (Via.), P.O., Mulayam, Thrissur - 680751
Details of NABET approved EIA consultant organization	M/s Environmental Engineers & Consultants Pvt. Ltd. ( at Sr. No. 54 as per MoEF & CC list of Accredited Consultant Organization ) <i>Head Office :-</i> A1-198, Janak Puri, New Delhi. <i>Branch Office:-</i> C-306, Kanchanjunga Apartments, Palarivattom P.O., Kochi, Kerala.

3. The proposal was placed in 46<sup>th</sup> meeting of SEAC held on 29-30/09/2015. The Committee deferred the item for field visit and submission of revised mining plan with letter of intent as per KMMC rules 2015.

The sub-committee of SEAC visited the site on 30-10-2015 and the report details furnished below:-

*"Field visit to the Quarry project site of M/S Valakkavu GRANITES Pvt. Ltd located in Survey Nos. 364/16/40, 364/10/42 & others at M/S Valakkavu GRANITES Pvt. Ltd, Vattapara, Valakkavu ( Via), P. O. Mulayam, Thrissur District, Kerala was carried out on 30.10.2015 by the sub-committee of SEAC, Kerala, comprising Dr. E.A. Jayson, Dr. K.G. Padmakumar and Sri. P. Sreekumaran Nair. The Proponent was also present at the site.*

*The project is an active quarry located at Mulayam Village, Nadathara Panchayath, Thrissur Taluk & District, Kerala. The method of operation is reported as through controlled blasting. The working faces are being modified by the formation of benches. This quarry area falling in own land is moderately sloping to northwest, exposing hard rock. Being an elevated land, streams are not seen in the site. However fairly good seepage of water is seen at the interface of rock. The entire drainage from the quarry is channelised through canals into North and drained water stored in two tanks for settling the silt. Dwelling units are not seen in the immediate vicinity of 100 m. The proposed rain harvesting facility of 7,000 KL should be completed. The workers are provided with limited accommodation and canteen facilities.*

*Based on an overall evaluation of the site, following points may be considered:*

- 1. Bench formation has been adopted recently. Main haulage is from the upper part on the southern side.*

2. *Over burden is partly stored in the western side but not in a planned manner. It must be stored in the designated places and provided with protective support.*
3. *The drainage from the quarry is currently directed to the North corner and let out. The deposited silt must also be cleaned periodically.*
4. *RWH pond must be provided at the lowest elevation in the North corner and can be in conjunction with the desiltation mechanism.*
5. *Considering the topography, garland drains need not be insisted upon.*
6. *The approach road to the quarry from the main road is not maintained at all. This road must be maintained in good condition by the proponent. Buffer distance from the road near the quarry may not be required as it ends at the quarry.*
7. *The blasting time must be displayed and strictly adhered to. The PPV values must be less than 10 mm/sec. Steps to be taken to limit fly rock to the quarry area.*
8. *Dust suppression mechanism must be in place.*
9. *In the absence of perennial streams in the vicinity, ultimate depth of mine will depend on the possible benches in the lease area.*
10. *Good growth of vegetation is seen all around the quarry including bamboo sp. which must be maintained till the entire life of quarry."*

4. On receipt of revised mining plan the proposal was considered by SEAC in its 53rd meeting held on 25/26-02-2016 and examined the mining plan and field inspection report. The Committee after examining the mining plan, prefeasibility report, field inspection report and all other documents submitted decided to recommend for issuance of EC subject to general conditions in addition to the following specific conditions for mining.

1. *Over burden is partly stored in the western side but not in a planned manner. It must be stored in the designated places and provided with protective support.*
2. *The drainage from the quarry is currently directed to the North corner and let out. The deposited silt must also be cleaned periodically.*
3. *RWH pond must be provided at the lowest elevation in the North corner and can be in conjunction with the desiltation mechanism.*
4. *The approach road to the quarry from the main road is not maintained at all. This road must be maintained in good condition by the proponent. Buffer distance from the road near the quarry may not be required as it ends at the quarry.*
5. *The blasting time must be displayed and strictly adhered to.*
6. *Dust suppression mechanism must be in place.*

5. The proposal was considered by SEIAA in its 52<sup>nd</sup> meeting held on 29-04-2016. The Committee after examining the mining plan, prefeasibility report, field inspection report and all other documents submitted decided to recommend for issuance of EC subject to the conditions proposed in the Inspection Report including the ones adopted by SEAC as the specific conditions, and the general conditions for mining projects.

6. Authority decided that EC may be issued to the quarry as per the recommendations of SEAC. The grant of E.C is also subject to production of no cluster certificate,

affidavit and general conditions stipulated for mining projects and the mitigation measures undertaken in the EMP in the PFR. However if any genuine complaints about the quarry is received, E. C issued shall be reviewed.

7. Validity shall be five years 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. Environmental Clearance is therefore granted to the quarry project of Sri. Jenny John, Managing Director, M/s Valakkavu Granites Pvt. Ltd., Vattappara, Valakkavu (Via.), P.O., Mulayam, Thrissur - 680751, Kerala subject to the general conditions annexed hereto.

8. 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 undertakings in chapter 4 of Mining plan (Mining), Chapter 11 (EMP) of the Mining Plan, Chapter 5 of Mining plan (Blasting), Chapter 4.10 of PFR (Disaster Management), and the entire Progressive Mine Closure Plan as submitted will be deemed to be part of these proceedings as conditions as undertaken by the proponent, as if incorporated herein.

9. Compliance of the conditions herein will be monitored by the Authority or its agencies 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, Thrissur to take legal action under the Environment (Protection) Act 1986.

10. The given address for correspondence with the authorised signatory of the project is Sri. Jenny John, Managing Director, M/s Valakkavu Granites Pvt. Ltd., Vattappara, Valakkavu (Via.), P.O., Mulayam, Thrissur District- 680751, Kerala.

Sd/

P. Mara Pandiyan., I.A.S  
Member Secretary (SEIAA)

&

Additional Chief Secretary to Government  
Environment & Forest Department  
Government of Kerala.

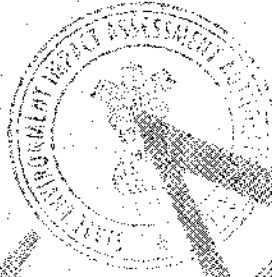
To,

Sri. Jenny John, P.,  
Managing Director,  
M/s Valakkavu Granites Pvt. Ltd.,  
Vattappara, Valakkavu (Via.),  
P.O., Mulayam, Thrissur - 680751.



Copy to:

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4<sup>th</sup> Floor, E& F Wing, II block, Koramangala, Bangalore-560034.
2. Principal Secretary to Government, Environment Department.
3. The District Collector, Thrissur.
4. The Director, Department of Environment & Climate Change.
5. The Director, Mining and Geology Department, Kesavadasapuram, Thiruvananthapuram-4
6. The Secretary, Nadathara Grama Panchayath, Kuzhukkully P.O., Thrissur-680752
7. Chairman, SEIAA
8. E.C File
9. Stock File
10. O/C.



Forwarded/ By order

Administrator  
SEIAA



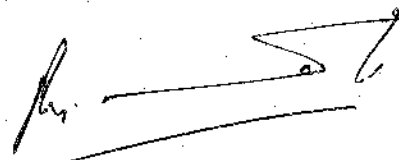
# STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA

## GENERAL CONDITIONS (for mining projects)

1. Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified.
2. Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.
3. 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.
4. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.
5. Sprinklers shall be installed and used in the project site to contain dust emissions.
6. Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.
7. 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 dumping and overburden and planted with indigenous plant species that are eco-friendly, if no other specific condition on reclamation of pit is stipulated in the E.C.
8. Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented
9. **The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mining. All the boundary indicators (boards, stores, markings, etc) shall be protected at all times and shall be conspicuous.**
10. Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.
11. Control measures on noise and vibration prescribed by KSPCB should be implemented.
12. Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.
13. Blasting should be done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency.
14. A licensed person should supervise/ control the blasting operations.
15. Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.
16. Overburden materials should be managed within the site and used for reclamation of mine pit as per mine closure plan / specific conditions.
17. Height of benches should not exceed 5 m, and width should not be less than 5 m, if there is no mention is the mining plan/specific condition.
18. Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.
19. Maximum depth of mining from general ground level at site shall not exceed 10m
20. No mining operations should be carried out at places having a slope greater than 45°.
21. 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.
22. The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.
23. Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.
24. The transportation of minerals should be done in covered trucks to contain dust emissions.
25. The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.
26. Disposal of spent oil from diesel engines should be as specified under relevant Rules/ Regulations.
27. Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department.
28. 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.
29. 100 m buffer distance should be maintained from forest boundaries.

30. Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating mining activity.
31. 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.
32. 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.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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 State Environment Impact Assessment Authority (SEIAA) office.
38. 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
39. 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.
40. 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.
41. 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.
42. Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board. Water sprinkling should be increased at places loading and unloading points & transfer point to reduce fugitive emissions.
43. 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.
44. 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.
45. 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.
  46. 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.
  47. Measures should be taken for control of noise levels below 85 dBA in the work environment.
  48. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
  49. The funds earmarked for environmental protection measures and CSR 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.
  50. 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.
  51. 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.
  52. 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.
  53. 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.
  54. 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.
  55. This order is valid for a period of 5 years or the expiry date of mine lease period issued by the Government of Kerala, whichever is earlier.
  56. 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.
  57. The mining operation shall be restricted to above ground water table and it should not intersect ground water table.
  58. 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'
  59. 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.
  60. 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.
  61. 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.



For Member Secretary, SEIAA Kerala

**G. RAJEEV**  
Administrator

State Environment Impact Assessment Authority  
Pallimukku, Pettah  
Thiruvananthapuram-695024  
Phone: 0471-2742264

