



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.H.Kurian, I.A.S., Member Secretary.*

**Sub: SEIAA- Environmental clearance for the proposed quarry project in Sy. Nos. 571/1A/34-5, 571/1A/34-4, 571/1A/34-4-1, 571/1A/12, 571/1A/12-56, 571/1A/13-137, 571/1A/12/54/127, 571/1A/12/54-1, 571/1A/12/54-2 at Konnithazham Village, Konni Panchayath, Konni Taluk, Pathanamthitta District, Kerala of Sri. Jacob Thomas, Managing Director, M/s Plakkattu Granite Industries Pvt Ltd. – Modified orders – Issued- Reg.**

**State Environment Impact Assessment Authority, Kerala**

**No.870/SEIAA/EC4/3101/2015**

**dated, Thiruvananthapuram 17.03.2018**

- Ref:-
1. Application received dated 05-08-2015 from Sri.Jacob Thomas, Managing Director, M/s Plakkattu Granite Industries Pvt Ltd., Payyanamon P.O, Konni, Pathanamthitta District, Kerala – 689692.
  2. E.C.No.158/2016 issued vide Proceedings No.870/SEIAA/EC4/3101/2015 dt. 30.09.2016.
  3. Representation dt. 01.12.2017 from Sri.Jacob Thomas, Managing Director, M/s Plakkattu Granite Industries Pvt Ltd., Payyanamon P.O, Konni, Pathanamthitta District, Kerala – 689692.
  4. Minutes of the 80<sup>th</sup> meeting of SEIAA held on 16.02.2018.

**ORDER**

Environmental Clearance was issued to Sri.Jacob Thomas, Managing Partner, M/s Plakkattu Granite Industries Pvt Ltd., Payyanamon P.O, Konni, Pathanamthitta District, Kerala – 689692, for the proposed quarry project in Sy. Nos. 571/1A/34-5, 571/1A/34-4, 571/1A/34-4-1, 571/1A/12, 571/1A/12-56, 571/1A/13-137, 571/1A/12/54/127, 571/1A/54-1, 571/1A/54-2 at Konnithazham Village, Konni Panchayath, Konni Taluk, Pathanamthitta District, Kerala, based on the decision of 57<sup>th</sup> meeting of SEIAA held on 26.08.2016, vide reference (2) above.

The proponent, vide representation under reference (3) above has informed that, in the Environmental Clearance issued vide 2<sup>nd</sup> paper above, there was an error in survey numbers mentioned in the application submitted by them. Now, the proponent requested to change in survey numbers in the Environmental Clearance Order. Necessary documents have been submitted to prove the same.

The Authority in its 80<sup>th</sup> meeting held on 16.02.2018 decided to to correct the error to the extent that the Survey Numbers mentioned in reference 2 above is hereby corrected and read as, 571/1A/34-5, 571/1A/34-4, 571/1A/34-4-1, 571/1A/12, 571/1A/12-56, 571/1A/13-137, 571/1A/12/54/127, 571/1A/12/54-1, 571/1A/12/54-2.

The Environmental Clearance issued vide reference 2<sup>nd</sup> cited stands modified to this extent only.

Sd/-

**P.H.KURIAN.I.A.S,**  
**Member Secretary (SEIAA)**

✓ To,

Sri.Jacob Thomas,  
Managing Director,  
M/s Plakkattu Granite Industries Pvt Ltd.,  
Payyanamon P.O, Konni,  
Pathanamthitta District, Kerala – 689692

Copy to,

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4<sup>th</sup> Floor, E&F Wing, II Block, Koramangala, Bangalore-560034.
2. The Additional Chief Secretary to Government, Environment Department, Government of Kerala.
3. The Director, Mining & Geology, Thiruvananthapuram -4.
4. District Collector, Pathanamthitta
5. Secretary, Konni Grama Panchayath, Konni P.O., Pathanamthitta- 689691.
6. Chairman, SEIAA.
7. Website
8. S/f
9. O/c



Forwarded/By Order

Administrator, SEIAA



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

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

Sub: - Environmental Clearance for the proposed quarry project in Sy.Nos. 571/1A/34-5, 571/1A/34-4, 571/1A/34-4-1, 571/1A/12, 571/1A/12-56, 571/1A/13-137, 571/1A/12/54/127, 571/1A/54-1, 571/1A/54-2 at Konnithazham Village, Konni Panchayath, Konni Taluk, Pathanamthitta District by Sri.Jacob Thomas- Erratum Orders :- issued.

**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY**

**No.870/SEIAA/EC4/3101/2015**

**Dated, Thiruvananthapuram 6/5/2017**

- Ref: 1. EC No. 158/2016 issued vide pdgs No.870/SEIAA/EC4/3101/2015  
Dated 30-09- 2016  
2. Letter Dated 19-10-2016 received from Shri.Jacob Thomas, C/o M/s Plakkattu Granite Industries (Pvt) Ltd.  
3. Minutes of 65<sup>th</sup> meeting of SEIAA held on 22.03.2016.

**ERRATUM ORDER**

The Environmental Clearance read as 1<sup>st</sup> paper above was issued to Shri.Jacob Thomas, M/s/Plakkattu Granite Industries Pvt Ltd, Payyanamon.P.O, Konni for quarry project in Sy.No. 571/1A/34-5, 571/1A/34-4, 571/1A/34-4-1, 571/1A/12, 571/1A/12-56, 571/1A/13-137, 571/1A/12/54/127, 571/1A/54-1, 571/1A/54-2 at Konnithazham Village, Konni Panchayath in Konni Taluk, Pathanamthitta District covering an area of 3.5723 hectares, based on the decision of the 57<sup>th</sup> meeting of SEIAA held on 26<sup>th</sup> August 2016.

The proponent, vide letter dated 19/10/2016 informed that, in the Environmental Clearance issued vide 1<sup>st</sup> paper read above, the expiry date of Environmental Clearance is mistaking noted as 29/9/2016. It ought to have been 29/9/2021.

The Authority in its 65<sup>th</sup> meeting held on 22<sup>nd</sup> March 2017 decided to correct the expiry date in the Environmental Clearance as 29.09.2021 instead of 29.09.2016. Therefore the expiry date of the Environmental Clearance issued vide 1<sup>st</sup> paper read above is hereby corrected as 29/9/2021.

This erratum order is issued accordingly. The Environmental Clearance issued vide reference 1<sup>st</sup> cited stands modified to this extent only.

James Varghese I.A.S.,  
Member Secretary (SEIAA)

Copy to

Sri.Jacob Thomas,  
Managing Director,  
M/s Plakkattu Granite Industries Pvt.Ltd,  
Payyanamon P.O.,Konni,  
Pathanamthitta District – 689 692.

To,

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4<sup>th</sup> Floor, E &R Wing II Block, Koramangala, Bangalore – 560034.
2. The Additional Chief Secretary to Government, Environment Department, Government of Kerala
3. Director, Mining & Geology, Thiruvananthapuram -4,
4. District Collector, Pathanamthitta
5. Secretary, Konni Grama Panchayat, Konni.P.O., Pathanamthitta – 689 691.
6. Chairman, SEIAA
7. Website,
8. S/F
9. O/c



Forwarded /By Order

*Rajendar*

Administrator (SEIAA)

Validity expires on 29-9-2016



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

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

Sub: Environmental Clearance for the proposed quarry project in Sy. Nos. 571/1A/34-5, 571/1A/34-4, 571/1A/34-4-1, 571/1A/12, 571/1A/12-56, 571/1A/13-137, 571/1A/12/54/127, 571/1A/54-1, 571/1A/54-2 at Konnithazham Village, Konni Panchayath, Konni Taluk, Pathanamthitta District by Sri. Jacob Thomas-EC Granted- Order issued

**State Environment Impact Assessment Authority, Kerala**

**No. 870/SEIAA/EC4/3101/2015**

**Dated: 30/09/2016**

- Ref: 1. Application dated 05-08-2015 from Sri. Sri.Jacob Thomas, Managing Director, M/s Plakkattu Granite Industries Pvt Ltd., Payyanamon P.O, Konni, Pathanamthitta District-689692.
2. Minutes of the 55<sup>th</sup> meeting of SEAC held on 10/11/20-5-2016.
3. Minutes of the 54<sup>th</sup> Meeting of SEIAA held on 21-6-2016.
4. Minutes of the 57<sup>th</sup> meeting SEIAA held on 26-8-2016.

**ENVIRONMENTAL CLEARANCE NO. 158 / 2016**

Sri.Jacob Thomas, Managing Director, M/s Plakkattu Granite Industries Pvt Ltd., Payyanamon P.O, Konni, Pathanamthitta District- 689692, vide his application received on 05-08-2015 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. Nos. 571/1A/34-5, 571/1A/34-4, 571/1A/34-4-1, 571/1A/12, 571/1A/12-56, 571/1A/13-137, 571/1A/12/54/127, 571/1A/54-1, 571/1A/54-2 at Konnithazham Village, Konni Panchayath, Konni Taluk, Pathanamthitta District, Kerala for an area of 3.5723 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50hectares) 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.

File No.	870/SEIAA/EC4/3101/2015	
Name of project	Quarry project of M/s Plakkattu Granite Industries Pvt. Ltd.	
Brief description of the project	Quarry project with an area of 3.5723 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.	Sy. Nos. 571/1A/34-5, 571/1A/34-4, 571/1A/34-4-1, 571/1A/12, 571/1A/12-56, 571/1A/13-137, 571/1A/12/54/124, 571/1A/54-1, 571/1A/54-2 of Konnithazham Village, Konni Panchayat, Pathanamthitta District, Kerala.	
GPS co-ordinates	Latitude (N)	09 <sup>0</sup> 15'09.05'' to 09 <sup>0</sup> 15'02.07''
	Longitude (E)	76 <sup>0</sup> 52'00.39'' to 76 <sup>0</sup> 51'59.97''
for Mining projects	Extent of area (in hectares)	3.5723 ha.
	Minimum and maximum height of excavation (MSL)	135 m MSL and 65 m. MSL
	Life of mine proposed	About 20 years
	Ultimate depth of mining (in MSL)	65 m. MSL
	Distance from the adjacent quarry	There is no quarry in operating within 500 m. radius.
	Capacity of production	1,20,000 MTA
	Details of project cost	Rs. 3.50 Crores
<b>ABOUT THE PROJECT</b>		
<b>Environmental Parameters Considered</b>		
<b>WATER</b>		
Water requirement & sources	The total water requirement is about 15 KLD in which 1 KLD is for domestic which would be sourced from open well, 12 KLD for dust suppression system in mine as well as ancillary units and 2 KLD for plantation purposes and will be sourced from storm water pond.	
RWH units proposed	Rain water collection pond.	
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 shall meet requirements as per rules after treatment of water (filtration, disinfection & sedimentation), and to let out of the site.	
Does it have provisions for use of recycled water	No	
<b>LAND</b>		
Proximity to forest lands	Kumaramperoor, 4 km., E	
Access road to the site –Width & Condition	6 m. tarred road, SW side	
Storage of explosives /hazardous substances	Yes, Explosives will be stored as per Explosive Act / Rules.	

Facility for solid waste management	The municipal solid waste will be suitably disposed.		
Topographic features/ slope	Part of the proposed area is already mined and remaining area is hilly area covered with some native tree, climbers, grass, shrubs, herbs etc. Slope towards west & north west side.		
Proneness of the area for landslides	No		
<b>ENERGY</b>			
Energy requirement	The total power requirement will be 75 kW for compressions, which will be drawn from diesel engine.		
Energy sources	From diesel engine.		
Extent of usage of alternative energy resources	No		
<b>BIODIVERSITY</b>			
Presence of any endangered species or red listed category	No		
Loss of native species and genetic diversity	For the quarrying activity all of native tree species, shrubs, herbs, climbers etc. existing at project site will be cleared. To be rectified as per EMP		
Likely displacement of fauna	No		
Any introduction of alien / invasive species	No		
<b>SOCIAL ASPECTS</b>			
Proximity to nearest habitation	103 m. , NE side		
CSR related to the project/ allocation/ time frame (details mandatory)	<b>Proposed common CSR Budget</b>		
	<b>Sl.N o.</b>	<b>Particulars</b>	
		<b>Amount Rs. In lakhs</b>	
	1.	Promotion of educational institutions	Recurring = 2,70,000 Non-recurring = Rs. 7.30 lakhs
	2.	Environmental sustainability	Recurring = Rs. 1,20,000 Non-recurring = Rs. 1.35,000
	3.	Health care activities	Recurring = Rs. 2,00,000 Non-recurring = Nil
4.	Infrastructure development	Recurring = Rs. 1.75,000 Non-recurring = Nil	
<b>GENERAL</b>			
Eco restoration programmes	The year wise programme of afforestation for the life of mine, about 3,400 trees will be planted. The main aim of the green belt development is to restore the eco-system to its original form to a maximum extent by designing the green cover with the same native species.		
Litigation/court cases, if any, against the project (provide details)	Nil as informed by proponent		

Right & nature of ownership of land	Private land
Details of Authorised Signatory	Mr. Jacob Thomas, Managing Director, M/s Plakkattu Granite Industries Pvt. Ltd, Payyanamon P.O., Konni, Pathanamthitta, Kerala-689692. Ph. 0468-2342298 / 2340557 Fax 0468-2242598 Mob.No.09447765421/09447760556 E-mail:- <a href="mailto:plakkattugranitekonni@gmail.com">plakkattugranitekonni@gmail.com</a>
Details of NABET approved EIA consultant organisation	M/s Environmental Engineers & Consultants Pvt. Ltd. ( at Sr. No. 56 as per MoEF & CC list of Accredited Consultant Organization ) <i>Head Office :-</i> A1-198, JanakPuri, New Delhi. <i>Branch Office:-</i> C-306, Kanchanjunga Apartments, Palarivattom P.O., Kochi, Kerala.

2. The proposal was placed in the 55<sup>th</sup> meeting of SEAC held on 10<sup>th</sup>, 11<sup>th</sup> and 20<sup>th</sup> of May 2016. The proponent and RQP attended the meeting and RQP made a power point presentation about the salient features of the project briefly. The Committee appraised the proposal based on Form 1, Form I A and Mining Plan. The Committee decided to recommend to issue Environmental Clearance on production of realistic CSR schemes for the locality before the SEIAA.

3. The proponent submitted realistic CSR as per the decision taken by 55<sup>th</sup> SEAC as above specified. The 54<sup>th</sup> Meeting of SEIAA held on 21-6-2016 considered the recommendation and decided to have a site inspection, the quarry being a major one and that SEAC had not held site inspection. Accordingly Chairman, and Member SEIAA, with the Administrator SEIAA, visited the Quarry site of M/s Plakkattu Granite Industries Pvt.Ltd at Payyanamon, Konni on 8.7.2016. Relevant portion of report of site inspection is extracted below:

*'The locality is Adikkadu in Payyanamon. Extent of the mining area is 3.5723ha. The land belongs to the proponent on sale deed. It was originally a pattaland. It was a working quarry. Operation is now stopped. They have lease for mining from Mining & Geology Dept up to 2021. Total land available at site is 14.27 Ha, out of which mining had been done under permit in 0.5140 Ha only. Purchase of the quarry under permit and land adjacent thereto, was in 2010.*

*The Proponent and Manager of the project was present. They have explained that the ultimate depth of mining would be 30 m which is taken at the general ground level at the road leading to the quarry.*

*There are no dwelling units within 100 meter of the entire area held by the proponent, including the land now not proposed to be used for quarrying. No major environmental issues are evident. The quarrying under permit was without scientific bench formation, but further mining can be done with benches and ensuring mitigation measures as per the EMP. There are no public resistance against the proposed quarry. Road to the quarry can be developed and used, without disturbance to general public. The land is planted with rubber and no serious bio-diversity loss is involved. Overall the site is suitable for quarrying.*

- 1. The depth of mining may be up to the general ground level at site and not the level of the PWD road to Thekkuthodu.*
- 2. Proponent may submit copy/copies of the sale deeds in respect of the lands involved in the proposed mining area of 3.5723 Ha for verification.*

4. The proposal was again placed in the 57<sup>th</sup> meeting of SEIAA held on 26-08-2016. Authority examined the recommendations of the SEAC and inspection report of the Chairman and Member SEIAA, and decided that Environmental Clearance may be issued with the above specific conditions and general conditions for mining projects. The proponent submitted copy of sale deeds in respect of the lands involved in the proposed mining area of 3.5723 Ha as per the field visit report by the Authority. State Environment Impact Assessment Authority Kerala hereby grant environmental clearance to the proposed quarry project by Sri. Jacob Thomas in Sy. Nos. 571/1A/34-5, 571/1A/34-4, 571/1A/34-4-1, 571/1A/12, 571/1A/12-56, 571/1A/13-137, 571/1A/12/54/127, 571/1A/54-1, 571/1A/54-2 at Konnithazham Village, Konni Panchayath, Konni Taluk, Pathanamthitta District, Kerala for an area of 3.5723 hectares subject to the specific condition given in para 3, general conditions in the appendix, mitigation measures undertaken in the EMP in the PFR, and in the Mining Plan submitted.

5. The clearance issued will also be subject to full and effective implementation of all the undertakings given in the application form, mitigation measures in the Environment Management Plan in Chapter 2 of the Pre-Feasibility Report 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 (Mining), Chapter 5 (Blasting) Chapter 6 (Mines Drainage), Chapter 11 (Environment Management Plan) and Chapter 12 (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.

6. Validity of the environmental clearance will be five years from the date of this clearance, subject to earlier review in the event of genuine complaint from anybody from the safety area or violation or non-compliance of any of the conditions stipulated herein.

7. 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, Pathanamthitta to take legal action under the Environment (Protection) Act, 1986.

8. The given address for correspondence with the authorized signatory of the project Sri.Jacob Thomas, Managing Director, M/s Plakkattu Granite Industries Pvt Ltd., Payyanamon P.O, Konni, Pathanamthitta District- 689692.

Sd/-

V.S. SENTHIL I.A.S  
Member Secretary, SEIAA

To,

✓ Sri.Jacob Thomas,  
Managing Director,  
M/s Plakkattu Granite Industries Pvt Ltd.,  
Payyanamon P.O,  
Konni,  
Pathanamthitta District- 689692.

Copy to

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4<sup>th</sup> Floor, E&F Wing, II Block, Koramangala, Bangalore-560034.
2. The Additional Chief Secretary to Government, Environment Department, Government of Kerala.
3. Director, Mining & Geology, Thiruvananthapuram -4.
4. District Collector, Pathanamthitta
5. Secretary, Konni Grama Panchayat, Konni P.O., Pathanamthitta-689691.
6. Chairman, SEIAA.
7. Website.
8. S/f
9. O/c



Forwarded/ By Order

*Rajeshwar*

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 on 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 up stream and down stream 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.



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