



Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment
Authority(SEIAA), Kerala)

To,

The

KORAH AND ASSOCIATES CONSULTANTS PRIVATE LIMITED

Vellimoozhayil, Payappar, Anthyalam, Lalam (Part), Payappar. P.O.,
Kottayam District, Kerala State -686651

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity
under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC)
in respect of project submitted to the SEIAA vide proposal number
SIA/KL/MIN/265720/2022 dated 03 Apr 2022. The particulars of the environmental
clearance granted to the project are as below.

| | |
|---|---|
| 1. EC Identification No. | EC22B001KL128055 |
| 2. File No. | 1354/EC2/2019/SEIAA |
| 3. Project Type | New |
| 4. Category | B2 |
| 5. Project/Activity including Schedule No. | 1(a) Mining of minerals |
| 6. Name of Project | Jose Joseph |
| 7. Name of Company/Organization | KORAH AND ASSOCIATES CONSULTANTS PRIVATE LIMITED |
| 8. Location of Project | Kerala |
| 9. TOR Date | N/A |

The project details along with terms and conditions are appended herewith from page
no 2 onwards.

Date: 11/07/2022

(e-signed)
Dr. Venu V IAS
Member Secretary
SEIAA - (Kerala)

*Note: A valid environmental clearance shall be one that has EC identification
number & E-Sign generated from PARIVESH. Please quote identification
number in all future correspondence.*

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**PROCEEDINGS OF THE
STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT
AUTHORITY – KERALA, THIRUVANANTHAPURAM**

*(Present : Dr.H.Nagesh Prabhu IFS (Retd), Chairman, Shri.K.Krishna Panicker,
Member, Dr.V.Venu IAS, Member Secretary)*

**Sub: SEIAA - Environmental Clearance of Granite Building Stone Quarry
Project of Sri. Jose Joseph, for an area of 0.9805 Ha in Block No. 23, Re-
Sy. Nos. 334, 345, 345/1 in Ramapuram Panchayath, Vellilappally Village,
Meenachil Taluk, Kottayam District, Kerala- Granted – Orders issued.**

**State Level Environment Impact Assessment Authority,
Kerala**

Proposal No. SIA/KL/MIN/265720/2022

File No. 1354/EC2/2019/SEIAA

- Ref: 1. Application received on 03.04.2022 from Sri. Jose Joseph
2. Minutes of the 105th SEAC meeting held on 28th and 29th October, 2019
3. Minutes of the 106th SEAC meeting 28th, 29th & 30th November, 2019
4. Minutes of the 113th SEAC meeting held on 15th – 17th September, 2020.
5. Minutes of the 115th SEAC meeting held on 3 – 5, November, 2020.
6. Minutes of the 118th SEAC meeting held on 1st, 2nd & 3rd February, 2021.
7. Minutes of the 120th SEAC meeting held on 24-26, March, 2021.
8. Minutes of the 125th SEAC meeting held on 18th – 19th March, 2022
9. Minutes of the 126th SEAC meeting held on 6th – 8th October, 2020
10. Minutes of the 114th SEIAA meeting held on 25th, 26th May and 1st June, 2022
11. G.O (Rt.) No.29/2019/Env dt.12.04.2019.

ENVIRONMENTAL CLEARANCE NO. 43/Q/2022

Sri. Jose Joseph, Vellimoozhiiyil (H), Payappur P.O., Kottayam, 686 651, submitted an application for Environmental Clearance via PARIVESH on 03.04.2022 (offline application received on 25.05.2019) for the Granite Building Stone Quarry for an area of

0.9805 Ha in Block No.23, Survey Nos. 334, 345, 345/1, Vellilappally Village, Meenachil Taluk, Kottayam District, Kerala. The project details are as follows:

| SL.No. | Particulars | Details |
|--------|---|---|
| 1 | Name of the Project | Granite Building Stone Quarry Project of Sri. Jose Joseph |
| 2 | Proposed Activity | Mining of Granite Building Stone |
| 3 | Name of the Sector & Schedule No. (in the EIA Notification, 2006) | Non Coal mining, Activity 1(a), Category B2 |
| 4 | Name & Address of the Project Proponent | Sri. Jose Joseph, Vellimoozhiiyl (H), Payappar P.O., Kottayam 686 651 |
| 5 | Project Location | |
| | a) Block No. & Survey Nos: | Block No.23, Survey Nos. 334, 345, 345/1 |
| | b) Revenue Village & Panchayat | Vellilappally village Ramapuram Panchayath |
| | c) Taluk | Meenachil |
| | d) District | Kottayam |
| 6 | Geo Co-ordinates | Latitude 9°45'37.70"N to 9°45'36.87"N Longitude 76°41'12.40" E to 76°41'10.63"E. |
| 7 | Extent (in Acre/Hectare) | 0.9805 Ha |
| 8 | Project Cost | Rs. 106 lakhs |
| 9 | Production details | 30648MT Mineable Reserves 15,32,40 MT |
| 10 | Water Requirement Source | 1.5 KLD : Open well/Tanker |
| 11 | Power Requirement | 1Kw |

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|--|-----------------------------|---|-------------|--|--|---------|--|-------------|--------|----|------------|--|------------|----|--------------------------|----------|----|--------------------------------|------------|----|--------------------------|------------|---|----------------------|----------|---|----------------|------------|---|-----------------|------------|-------|--|--|------------|---------|--|-------------|--------|----|-----------------------------|---|------------|--|--|--|-------------|
| | Source | KSEB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | Field Inspection Details | Date of Field Inspection : 28.10.2020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Cost of CER including EMP | <table><tr><td>Sl. No.</td><td></td><td>Particulars</td><td>Amount</td></tr><tr><td>1.</td><td rowspan="8">EMP BUDGET</td><td>Afforestation work within and outside of proposed area</td><td>2,50,000/-</td></tr><tr><td>2.</td><td>Peripheral Garland drain</td><td>50,000/-</td></tr><tr><td>3.</td><td>Gully plugs/ Desiltation Traps</td><td>1,00,000/-</td></tr><tr><td>4.</td><td>Environmental Monitoring</td><td>1,25,000/-</td></tr><tr><td>5</td><td>Medical Aid Facility</td><td>75,000/-</td></tr><tr><td>6</td><td>Retention wall</td><td>2,50,000/-</td></tr><tr><td>7</td><td>Fire protection</td><td>1,00,000/-</td></tr><tr><td colspan="3">Total</td><td>9,50,000/-</td></tr><tr><td>Sl. No.</td><td></td><td>Particulars</td><td>Amount</td></tr><tr><td>1.</td><td>CER Programmes (First year)</td><td>Proposal for construction of hygienic toilet oin NSS Government L.P. school ward VIII Ramapuram Panchayath as part of CER</td><td>5,76,310/-</td></tr><tr><td colspan="3">Grand Total of EMP + CER (9,50,000+5,76,310)</td><td>15,26,310/-</td></tr></table> | | | | Sl. No. | | Particulars | Amount | 1. | EMP BUDGET | Afforestation work within and outside of proposed area | 2,50,000/- | 2. | Peripheral Garland drain | 50,000/- | 3. | Gully plugs/ Desiltation Traps | 1,00,000/- | 4. | Environmental Monitoring | 1,25,000/- | 5 | Medical Aid Facility | 75,000/- | 6 | Retention wall | 2,50,000/- | 7 | Fire protection | 1,00,000/- | Total | | | 9,50,000/- | Sl. No. | | Particulars | Amount | 1. | CER Programmes (First year) | Proposal for construction of hygienic toilet oin NSS Government L.P. school ward VIII Ramapuram Panchayath as part of CER | 5,76,310/- | Grand Total of EMP + CER (9,50,000+5,76,310) | | | 15,26,310/- |
| Sl. No. | | Particulars | Amount | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | EMP BUDGET | Afforestation work within and outside of proposed area | 2,50,000/- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | | Peripheral Garland drain | 50,000/- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | | Gully plugs/ Desiltation Traps | 1,00,000/- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. | | Environmental Monitoring | 1,25,000/- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | Medical Aid Facility | 75,000/- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | Retention wall | 2,50,000/- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | Fire protection | 1,00,000/- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | | 9,50,000/- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sl. No. | | Particulars | Amount | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | CER Programmes (First year) | Proposal for construction of hygienic toilet oin NSS Government L.P. school ward VIII Ramapuram Panchayath as part of CER | 5,76,310/- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grand Total of EMP + CER (9,50,000+5,76,310) | | | 15,26,310/- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | Validity | 5 years from the date of execution of the mining lease from the Department of Mining and Geology, as per SO 1807(E) dated 12.04.2022 of MoEF & CC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

2. In the 125th SEAC meeting held on 18th – 19th March, 2022, the Committee considered the proposal and decided to recommend the issuance of EC for the Project Life of 5 years, subject to the following Specific Conditions in addition to the General Conditions.

1. Compensatory afforestation should be done from the 1st year itself and the coordinates of the area with geo tagged photos shall be submitted with HYCR.
 2. Garland canal and drainage channel should be maintained on a regular basis so as to ensure unobstructed discharge of overland flow.
 3. Measures incorporated in the CER should be implemented in total during the first two years and it should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.
3. On receipt of the online proposal (No. SIA/KL/MIN/265720/2022) via PARIVESH as per O.M. No. IA3-19/95/2021-IA-III dated 06-10-2021 the file was placed in the 126th SEAC meeting held on 11th to 13th April, 2022, the Committee decided to adhere to the decision No. 125.09 taken in its 125th meeting.
4. In the 114th SEIAA Meeting 25th, 26th May and 1st June 2022, the Authority decided to issue Environmental Clearance for a project life 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. 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.*
 - 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease order should be provided to the SEIAA before commencing the mining activity.*
 - 3. Schedule of blasting should not overlap with the blasting time of the adjacent quarry.*
 - 4. Schedule of transportation should be prepared in consultation with the adjacent quarry owners and ensure that the plight of vehicles shall not overlap.*
 - 5. Compensatory afforestation should be done from the 1st year itself and the coordinates of the area with geo tagged photos shall be submitted with HYCR.*
 - 6. Garland canal and drainage channel should be maintained on a regular basis so as*

to ensure unobstructed discharge of overland flow.

- 7. Measures incorporated in the CER should be implemented in total during the first two years and it should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.*
 - 8. As per OM No F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self government Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.*
 - 9. 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.*
 - 10. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble 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 at regular intervals.*
 - 11. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*
5. Environmental Clearance as per the EIA Notification 2006 is hereby accorded for the Granite Building Stone Quarry Project of Sri. Jose Joseph, Vellimoozhiiyl (H), Payappar

P.O., Kottayam 686 651 for an area of 0.9805 Ha, in Block No.23, Survey Nos. 334, 345, 345/1 at Vellilappally village, Meenachil Taluk, Kottayam District, Kerala, **for a period of 5 years from the date of execution of valid mining lease/permit from the Department of Mining and Geology, as per SO 1807(E) dated 12.04.2022 of MoEF & CC**, for the quantity mentioned in the approved Mining Plan, subject to the Specific Conditions in Para (4) above, and all the environmental impact mitigation and management measures undertaken by the Project Proponent in the Form I, EMP, PFR and Mining Plan submitted to SEIAA. The assurances and clarifications given by the proponent will be deemed to be a part of this Proceedings as if incorporated herein. Also the General Conditions for projects stipulated for mining (items 1 to 57), mentioned below will be applicable and have to be strictly adhered to.

6. The Environmental 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. The above undertakings and the conditions and the undertakings in (Mining), (Blasting), (Mines Drainage), (Stacking of Mineral rejects and Disposal of waste), (Environment Management Plan) & (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.

7. Validity of the Environmental Clearance will be **Five (5) years** from the date of execution of valid mine lease/permit from Mining & Geology Department as per SO 1807(E) dated 12.04.2022 of MoEF & CC, subject to earlier review of EC in case of violation or non-compliance of conditions or genuine complaints from residents within the security area of the quarry.

8. 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, Forest & Climate Change, Govt. of India, Bangalore. 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.

9. Instances of violation if any shall be reported to the District Collector, Kottayam.

10. The Half Yearly Compliance Report (HYCRs) with its contents, covering letter,

compliance report and environmental monitoring data have to be uploaded in the PARIVESH portal and the website of the Project Proponent. The HYCR with the name of the project, EC No and date & the period of submission should be sent to the Regional Office of MoEF & CC & to SEIAA by email only at email ID rosz.bng-mefcc@gov.in & seacseiaakerala@gmail.com, respectively. Hardcopy of HYCRs shall not be acceptable.

11. The given address for correspondence with the authorised signatory of the project is Sri. Jose Joseph, Vellimoozhiiyil (H), Payappar P.O., Kottayam 686 651.

GENERAL CONDITIONS

1. 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.
2. All the statutory clearances should be obtained, as applicable, by the project proponent from the respective competent authorities including that for blasting and storage of explosives. Copies of all statutory clearances shall be submitted along with First Half Yearly Compliance Report.
3. The project proponent should advertise in news papers that the project has been accorded Environmental Clearance and copies of clearance letters are available in the Office of State Environment Impact Assessment Authority (SEIAA) and on the website of the Authority at www.seiaakerala.in. The advertisement should be in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language. The advertisement should be made within 10 days from the date of receipt of the Environmental Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.
4. The proponent shall send a copy of the EC 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 uploaded on the website of the company.

5. The lease area shall be fenced with barbed wire to a minimum height of 4ft around, before starting mining. All the boundary indicators (boards, markings, etc) shall be conspicuous and maintained at all times.
6. 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 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.
7. Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department. Mats to reduce fly rock blasts to a maximum of 10 PPV should be provided.
8. Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged stipulated by Explosive Department.
9. Access roads to the quarry shall be black topped to contain dust emissions that may arise during transportation of materials. The transportation of minerals should be done in covered trucks to contain dust emissions.
10. A separate Environmental Management Cell (EMC) with suitable qualified personnel should be set-up under the chairmanship of a Senior Executive, who will report directly to the Head of the Organization. The Cell should have representative of Biodiversity Management Committee of the Panchayath and a representative of NGO, if any active in the area. The EMC should meet at least once in six months and review the activities and minutes should be a part of the compliance report.
11. Quarrying has to be carried out as per approved mining plan with the suggestions from SEAC incorporated and following KMMC rules 2015 and the Amendments thereby.
12. The quarrying operation shall be restricted between 7 AM and 5PM
13. Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.
14. Maximum depth of mining shall be as per the mining plan and as per

specific direction of SEAC after field inspection. The maximum depth of mining should not be deeper than the local ground water table. No mining operations should be carried out at places having a slope greater than 45°.

15. The height of any bench shall not exceed five meters and breadth shall not be less than the height.
16. The Project proponent shall ensure that no perennial or intermittent natural water course and/or water resources are 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.
17. A minimum buffer distance specified as per existing rules and statutory orders shall be maintained from the boundary of the quarry to the nearest dwelling unit or other structures, and from forest boundaries or any other ecologically_sensitive and archeologically_important areas or the specific distance specified by SEIAA in EC as per the recommendations of SEAC depending on specific local conditions.
18. The proponent should plant seedlings at least 5 times of the loss of trees that has occurred while clearing the land for the project and follow planting measures as suggested by SEAC. Suitable avenue trees should be planted along the sides of the approach road and internal roads and open parking areas, if any. Preference should be given to endemic native and fruit bearing species. Planting in buffer areas should be taken up beforehand. Proper upkeep and maintenance of planted seedlings shall be ensured by the project proponent.
19. The proponent should ensure that the vegetation in the buffer is retained, maintained and strengthened with additions of native broad leaved plants.
20. Eco-restoration including the closure of mine as per the progressive closure plan and final closure plan shall be done at the cost of the project proponent. This eco-restoration should follow scientific standards available for restoration, full recovery of the original vegetation and improving the resilience of different ecosystems. Overburden materials should be managed within the site and used for reclamation of mined pit as per mine closure plan / specific conditions.

21. 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 suitable indigenous plant species, if no other specific condition on reclamation of pit is stipulated in the E.C. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.
22. Control measures on noise and vibration prescribed by KSPCB should be implemented. Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.
23. Periodical monitoring of the vibration at specified location (preferably at a distance of 50 m and 100 m) to be conducted and records kept for inspection. This could also form a part of the compliance reports.
24. Speed of trucks entering or leaving the mine site is to be limited to moderate speed of 25 kmph to prevent undue noise from empty trucks.
25. Acoustic enclosures should be 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 standard limit indicated by CPCB/KSPCB.
26. Blasting should be done in a controlled manner using NONEL technique as specified by the regulations of Petroleum and explosive safety organization (GOI) or any other concerned authorized agency. A licensed person should supervise/ control the blasting operations.
27. Measures should be taken for maintaining noise levels below 85 dBA in the work environment.
28. Project proponent should obtain necessary prior permission of the competent authorities for drawing requisite quantity of surface water and ground water for the project.
29. 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 compliance reports to SEIAA.
30. 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, and for green belt development etc. The drains shall be regularly desilted and maintained properly, particularly after monsoon.

31. Regular monitoring of ground water level and quality shall be carried out around the mine area during mining operation. If any stage, if it is observed that ground water table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.
32. Garland drains and silt traps are to be provided in the slopes around the core area to channelize storm water. De-silting of Garland canal and silt traps have to be attended on a daily basis. A labour has to be specifically assigned for the purpose. The proponent shall ensure the quality of the discharging storm water as per the General Effluent Discharge Standards of CPCB.
33. 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 the E.C was issued, the project would require a fresh appraisal by this Authority, for which the proponent shall apply and get the approval of this Authority. In the case of transfer of ECs, the matter shall be intimated and get the approval from the Authority as per the existing norms.
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 top soil, if any, shall be temporarily stored at earmarked place (s) and 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 at 45⁰. The OB dumps

should be scientifically vegetated with suitable native species to prevent erosion and surface run off. At critical points, use of geo textile shall be undertaken for stabilization of the dump. Protective wall or gabions should be made around the dump to prevent erosion / flow of sediments during rains. The entire excavated area shall be backfilled.

36. All the mining equipment used in Mining like backhoe loaders and excavators cause pollution and hence shall be serviced regularly & maintained for their efficient functioning and for reducing pollution. Disposal of spent oil from diesel engines should be as specified under relevant Rules/ Regulations.
37. All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution checking centre. Washing of all vehicles shall be inside the lease area. .
38. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution such as haul road, loading and unloading points and transfer points and having high levels of PM₁₀ and PM_{2.5}. 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.
39. Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement at project site, parking area, on haul roads, loading and unloading and at transport points should be provided and properly maintained.
40. Corporate Environmental Responsibilities (CER) as prescribed by SEIAA/SEAC should be carried out leading to Environmental stability of the Project region. The activities carried out under CER should be a part of the half yearly compliance report. The certificates from the beneficiaries, if the CER part is completed should also be submitted to the State Environment Impact Assessment Authority (SEIAA) along with year wise expenditure.
41. The project proponent is responsible for implementing all the provisions of labour laws applicable from time to time to quarrying /Mining operations. The workers on the site should be provided with on-site accommodation or

facilities at a suitable boarding place, protective equipment such as ear muffs, helmet, etc.

42. The proponent has to provide insurance protection to the workers in the case of existing mining or provide the affidavit in case of fresh lease before execution of mining lease.
43. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. The report of health surveillance programme should be included in the half yearly compliance reports.
44. The pits in the abandoned quarries and in the mined area shall be used for activities like water harvesting, aqua culture etc. in an eco friendly manner.
45. If Government land is partly or fully used for mining, the area shall be returned at the end of lease period after mine closure with separate demarcation with suitable survey marks.
46. Any accident occurring in the mined out area after the lease period due to negligence in carrying out safety measures and non-closure , will lead to suspension of all EC obtained for mining by the Proponent.
47. In case of transfer of EC the matter shall be intimated and approval from the Authority shall be obtained as per the existing norms.
48. The proponent shall submit Half Yearly Compliance Reports (1st of June & 1st of December) 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 be simultaneously sent to the respective Regional Office of Ministry of Environment, Forests and Climate Change, Govt. of India and also to the Office of State Environment Impact Assessment Authority (SEIAA). The proponent has to submit Environmental statement in form V of Environment (Protection) Rules 1986 to SPCB on 31st March every year.
49. The project authorities should extend full cooperation to the officer (s) from the Regional Office of MOEF & CC located at

Bangalore/SEAC/SPCB/CPCB/dept of Mining and Geology, while monitoring compliance of the stipulated conditions, by furnishing the requisite data/information/monitoring reports.

50. 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.
51. 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.
52. The EC given will be withdrawn at any time if the area is declared high hazardous by the SDMA.
53. The Environmental Clearance will be subject to the final order of the courts on any pending litigation related to the land or project, in any court of law.
54. 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.
55. 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.
56. The SEIAA may revoke or suspend the order, for non implementation of any of the specific or any of the above conditions. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environmental protection.
57. As per regulation no. 106(2) of metalliferous mines regulation under Mine act, the height of any bench shall not exceed six meters and breadth shall not be less than the height.

Sd/-
Administrator, SEIAA
For Member Secretary, SEIAA

To,

Sri. Jose Joseph,
Vellimoozhiyil (H),
Payappar P.O.,
Kottayam 686 651

Copy to,

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E & F Wing, II Block, Koramangala, Bangalore-560034 (through e-mail: rosz.bng-mefcc@gov.in).
2. The Additional Chief 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. The District Collector, Kottayam
5. The Director, Mining & Geology, Thiruvananthapuram -4.
6. The Member Secretary, Kerala State Pollution Control Board.
7. The District Geologist, Kottayam.
8. The Tahsildhar, Meenachil Taluk, Kottayam District.
9. The Secretary, Ramapuram Grama Panchayath, Meenachil Taluk, Kottayam.
10. The Chairman, SEIAA.
11. Website.
12. S/f
13. O/c