

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

(Present. SABITHA S)

Sub: SEIAA- Environmental clearance for the Proposed building stone quarry project in Sy. Nos. 14/2(p), 14/1, 14/3, 22/3, 22/1, 13/3, 13/2-1, 13/2, 13/1, 13/4-5, 22/4-1, 22/4-2, 22/4-3, 22/4, 22/5-1, 22/5-2, 22/5-2-1, 22/2, 13/9-1, 13/9-2, 13/4-6, 14/5-1, 13/4, 13/14-7, 14/19, 13/4-1, 13/4-2, 13/4-3, 13/19, 13/8-3, 13/8-4, 13/8, 13/8-2, 13/8-1, 13/20, 1/5, 1/4-2, 13/11, 1/3-2(p), 59/10(P) at Thottapuzhassery & Koipuram Village, Thiruvalla Taluk, Pathanamthitta District, Kerala by Sii. K.M Mathew, M/s Kuzhuvommannil Granites Metals Pvt. Ltd. - Granted - Orders issued.

## State Environment Impact Assessment Authority, Kerala

## No. 916/SEIAA/EC4/3670/2015

dated, Thiruvananthapuram 06.01.2020

Ref: 1. Application received dated from 14.09.2015, Sri.K.M. Mathew, M/s Kuzhuvommannil Granite Metals Pvt Ltd, Kuruvankuzhy P.O., Pulladu Village, Thiruvalla Taluk, Pathanamthitta district -689548.

- 2. Minutes of the 56th SEAC held on 06th & 07th June, 2016.
- 3. Minutes of the 60<sup>th</sup> SEAC meeting held on 28<sup>th</sup> & 29<sup>th</sup> July, 2016.
- 4. Minutes of the 59th SEIAA meeting held on 27.09.2016.
- 5. Minutes of the 74 SEIAA meeting held on 09.10.2017.
- 6. Proceedings issued vide order No. 916/SEIAA/EC4/3670/2015 dated 20.11.2017.
- 7. Minutes of the 79<sup>th</sup> SEIAA meeting held on 09.01.2018 .
- 8. Request from Shri.K.M.Mathew vide letter dated 19.07.2019.
- 9. Minutes of the 96<sup>th</sup> SEIAA meeting held on 20<sup>th</sup> August 2019.
- 10. Minutes of the 103<sup>rd</sup> SEAC meeting held on 17<sup>th</sup>& 18<sup>th</sup> September, 2019.
- 11. Minutes of the 98th SEIAA meeting held on 18th & 19th October 2019.
- 12. Minutes of the 99<sup>th</sup> SEIAA meeting held on 21<sup>st</sup> & 22<sup>nd</sup> November, 2019.
- 13. Judgement dated 22.11.2019 in WP(C) 3010/2018(A) filed by Shri.K.M.Mathew.
- 14. Minutes of the 100th SEIAA meeting held on 23rd & 24th December, 2019.
- 15. G.O(Rt.) No.29/2019/Envt dt.12.04.2019.

#### ENVIRONMENTAL CLEARANCE NO. 04/2020

Sri.K.M. Mathew, M/s Kuzhuvommannil Granite Metals Pvt Ltd, Kuruvankuzhy P.O., Pulladu Village, Thiruvalla Taluk, Pathanamthitta district -689548, vide the hardcopy of application submitted on 14.09.2015 for the building stone quarry project in Sy. Nos. 14/2(p), 14/1, 14/3, 22/3, 22/1, 13/3, 13/2-1, 13/2, 13/1, 13/4-5, 22/4-1, 22/4-2, 22/4-3, 22/4, 22/5-1, 22/5-2, 22/5-2-1, 22/2, 13/9-1, 13/9-2, 13/4-6, 14/5-1, 13/4, 13/14-7, 14/19, 13/4-1, 13/4-2, 13/4-3, 13/19, 13/8-3, 13/8-4, 13/8, 13/8-2, 13/8-1, 13/20 21/5, 1/4-2, 13/11, 1/3-2(p), 59/10(P) at Thottapuzhassery& Koipuram Village, Thiruvalla Taluk, Pathanamthitta District, for an area of 4.78.34 hectares. The project comes under Category: B. Schedule: 1 (a) of EIA Notification 2006.

- 2. The total area consists of 4.78.34 hectares, which is a private patta land. The proposed capacity of production is 97432 m<sup>3</sup> per annum (Max.). The total project cost is 71.70 lakhs.
- 3. The proposal was considered in 56th SEAC held on 06th 07th June, 2016. Further to the intimation of SEAC, the proponent along with the RQP attended the meeting and the RQP made a brief power-point presentation of the salient features of the project. The Committee appraised the proposal based on Form I, Pre-feasibility report, Mining Plan & Field Inspection Report. The quarry is in operational based on lease and quarry permit. He has got lease as well as permit. There could be possible violation for quarrying using these permit and lease. The Committee deferred the proposal for site inspection and for the submission of revised CSR.

The proponent submitted the revised CSR on 18/06/2016. The Subcommittee conducted the site inspection on 08.07.2016.

- 4. The proposal was placed in the 60<sup>th</sup> SEAC meeting held on 28<sup>th</sup> & 29<sup>th</sup> July, 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 general conditions in addition to the following specific conditions for mining.
  - 1. Considering the presence of steep cuttings, and fragmented way of quarrying, it is to be emphasised that the future working will be from the elevated part following the top

to bottom approach.

- 2. The steep cliff like faces to be marked as danger zones with proper fencing and sign boards. They can be exploited only with the advancement of benches.
- 3. The seasonal stream in the western side is to be maintained with a check dam or any other suitable conservation mechanism.
- 4. The storm water from the quarry need proper channelization and clarification before it is let out of the lease area.
- 5. Top soil and over burden need proper storage area on the lower part/ can be partly used for the reclamation of old pits.
- 5. The proposal was placed in the 59<sup>th</sup> SEIAA meeting held on 27.09.2016. The Authority's decision is as follows:

"The proposal was considered in the 60<sup>th</sup>Meeting of SEAC held on 28<sup>th</sup>& 29<sup>th</sup>July 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 general conditions in addition to the following specific conditions for mining.

- 1. Considering the presence of steep cuttings, and fragmented way of quarrying, it is to be emphasised that the future working will be from the elevated part following the top to bottom approach.
- 2. The steep cliff like faces to be marked as danger zones with proper fencing and sign boards. They can be exploited only with the advancement of benches.
- 3. The seasonal stream in the western side is to be maintained with a check dam or any other suitable conservation mechanism.
- 4. The storm water from the quarry need proper channelization and clarification before it is let out of the lease area.
- 5. Top soil and over burden need proper storage area on the lower part/ can be partly used for the reclamation of old pits.

Authority decided to accept the recommendations and to issue E.C for the quarry subject to production of affidavit that 100 m distance will be left from the dwelling units."

**6.** The proposal was placed in the 74<sup>th</sup> SEIAA meeting held on 09.10.2017. The Authority's decision is as follows:

"SEIAA in its 59<sup>th</sup> meeting held on 27.09.2016 decided to recommend EC with a specific condition that he should submit an affidavit stating that 100 m distance should be left

from dwelling units. Inspite of repeated reminders to submit the said affidavit he refused to do so, evenafter one year. Hence SEIAA send a notice to him dt.10.04.2017 that the EC recommended will be cancelled if he failed to submit the affidavit within 15 days. The proponent has not furnished the same till date. He further states that the added clause is not binding on them as the lease and proceedings clearly mentions a distance of 50 m only. He also states that two nearby quarries who obtained EC vide nos. EC34/SEIAA/KL/6089/2012 dated 14.11.2012 and EC145/SEIAA/4/2746/2013 dated 04.01.2016 issued do not stipulate any condition regarding distance and hence the above condition is a discrimination to him (There was no need to insert such a condition as there were no dwelling units witinin 100 ms, in the other cases).

Authority as a specific and general condition has insisted 100m buffer distance form the dwelling units. After recommending the project for granting EC, the proponent has failed to produce the affidavit even after one year, Authority decided to cancel the EC recommended in the 59<sup>th</sup> meeting held on 27.09.2016."

- 7. Based on the decision of the 74th SEIAA meeting, rejection proceedings has been issued vide proceedings 6<sup>th</sup> read above.
- 8. The proponent has submitted a revised petition dated 26.12.2017. The proposal was placed in the 79<sup>th</sup> SEIAA meeting held on 09.01.2018. The Authority's decision is as follows:

"The application for Environment Clearance for the proposed quarry project in Sy. Nos. 14/2(p), 14/1, 14/3, 22/3, 22/1, 13/3, 13/2-1, 13/2, 13/1, 13/4-5, 22/4-1, 22/4-2, 22/4-3, 22/4, 22/5-1, 22/5-2, 22/5-2, 1, 22/2, 13/9-1, 13/9-2, 13/4-6, 14/5-1, 13/4, 13/14-7, 14/19, 13/4-1, 13/4-2, 43/4-3, 13/19, 13/8-3, 13/8-4, 13/8, 13/8-2, 13/8-1, 13/20, 1/5, 1/4-2, 13/11, 1/3-2(p), 59/10(P) at Thottapuzhassery& Koipuram Village, block no .24 ThiruvallaTaluk, Pathanamthitta District was rejected vide Proceedings no.916/SEIAA/EC4/3670/2015 dt.20.11.2017. Sri.K.M.Mathew has now requested that his application was submitted before SEIAA for prior EC on 14.09.2015 and that the Order rejecting the application was communicated to him on 20.11.2017 ie. after 827 days, ignoring all directions contained in EIA Notification 2006. He has also stated that since SEIAA failed to communicate its decision on his application dt. 14.09.2015 for EC within the period specified in sub para (i) (ii) of Par 8, he has full authority under law to proceed with mining activity as if the prior EC has been granted by SEIAA in terms of recommendation of SEAC in its 60<sup>th</sup> meeting held on 28<sup>th</sup>& 29<sup>th</sup> July 2016. He further states that he is eligible for deemed prior EC asper

law in accordance with recommendation of SEAC and he has requested that the same may be issued at the earliest.

Though the Authority had repeatedly requested the proponent to produce an Affidavit stating that the specific condition 100 m distance will be left from dwelling units near the quarry, the proponent failed to produce the same even after one year and hence vide decision of the 74<sup>th</sup> meeting of SEIAA held on 09.10.2017 the Authority decided to cancel the EC recommended in the 59<sup>th</sup> meeting held on 27.09.2016.

The Authority decided that the matter does not deserve further consideration as SEIAA has already taken a decision in this case."

Later as per representation dated 19.07.2019, Shri.K.M.Mathew requested to reconsider the issue on the basis of G.O.(P) No.25/2017/ID, dated 27/06/2017.

- 9. The proposal was placed in the 96<sup>th</sup> SEIAA meeting held on 20<sup>th</sup> August 2019. Authority decided to refer the proposal to SEAC for field inspection and report as the field inspection of SEAC was carried out three years back. Lot of changes might have taken place after the field inspection of SEAC held on 08.07.2016. Moreover in the inspection report it is seen that, on the eastern side of the proposed quarry, one more quarry by Poabs group has been functioning. This may lead to a cluster situation and hence a different approach has to be adopted while issuing EC as per S.O 2269/E dated, 1<sup>st</sup> July 2016 of MoEF, under EIA Notification 2006. SEAC may consider this aspect also while appraising the proposal afresh.
- 10. The proposal is placed in the 103<sup>rd</sup> SEAC meeting held on 17<sup>th</sup>& 18<sup>th</sup> September, 2019. The Committee is of the opinion that SEIAA has already issued rejection proceedings on 20.11.2017 & hence this cannot be reconsidered. If it has to be reconsidered, the proponent has to apply afresh.
- 11. The proposal was placed in the 98<sup>th</sup> SEIAA meeting held on 18<sup>th</sup> & 19<sup>th</sup> October 2019. The proposal was placed in the 103<sup>rd</sup> meeting of SEAC held on 17<sup>th</sup> 18<sup>th</sup> September 2019. The Committee is of the opinion that SEIAA has already issued rejection proceedings on 20.11.2017 & hence this cannot be reconsidered. Authority decided to inform the same to proponent with reasons for rejection. The decision had been intimated to the proponent.

Sri.K.M.Mathew filed a WP ( C) 3010/2018 before the Hon'ble High Court against the issuance of rejection notice issued to him by SEIAA and he statedthat the statue prescribes 100m distance should be maintained between quarry and the dwelling house, authority have no power to ask to submit an affidavit stating 100 m distance should be left from dwelling unit.

12. The proposal was placed in the 99<sup>th</sup> SEIAA meeting held on 21<sup>st</sup> November, 2019. Authority noticed that as per G.O(P) No. 25/2017/ID dated 27.06.2017 the distance to be maintained from the dwelling unit is 50mts. Under the circumstance the proponent may be asked to submit a fresh application along with Letter of Intent issued by Department of Mining & Geology to reconsider the proposal.

Meantime judgement dated 22.11.2019, in WP(C) 3010/2018(A) has been received.

13. The proposal was placed in the 100<sup>th</sup> SEIAA meeting held on 23<sup>rd</sup> & 24<sup>th</sup> December, 2019. As per the judgment dated 22.11.2019 in WP (C) 3010/2018, the Hon'ble High Court directed the first respondent, SEIAA to reconsider the matter adverting to exhibit P14 and P15 and if the same are found in any manner inadequate, they should allow the petitioner an opportunity of preferring a fresh affidavit and a final decision on this will be taken not later than one week of their next sitting.

In accordance with the judgment, the proponent was given an opportunity of being heard on 23.12.2019. He appeared before the Authority and agreed to submit a sworn in affidavit to the satisfaction of SEIAA as explained to him and Authority decided to issue EC after the receipt of the sworn in affidavit. This was informed to the petitioner during the hearing.

The proponent submitted the affidavit on 27.12.2019.

14. Environmental Clearance as per the EIA Notification 2006 is hereby accorded for the building stone quarry project of Sri.K.M. Mathew, M/s Kuzhuvommannil Granite Metals Pvt

Ltd, Kuruvankuzhy P.O.,Pulladu Village, Thiruvalla Taluk, Pathanamthitta district -689548, in Sy. Nos. 14/2(p), 14/1, 14/3, 22/3, 22/1, 13/3, 13/2-1, 13/2, 13/1, 13/4-5, 22/4-1, 22/4-2, 22/4-3, 22/4, 22/5-1, 22/5-2, 22/5-2-1, 22/2, 13/9-1, 13/9-2, 13/4-6, 14/5-1, 13/4, 13/14-7, 14/19, 13/4-1, 13/4-2, 13/4-3, 13/19, 13/8-3, 13/8-4, 13/8, 13/8-2, 13/8-1, 13/20, 1/5, 1/4-2, 13/11, 1/3-2(p), 59/10(P) at Thottapuzhassery & Koipuram Village, Thiruvalla Taluk, Pathanamthitta District, Kerala for an area of 4.78.34 hectares for the quantity mentioned in the Mining plan, for a period of five years subject to the specific conditions in para 5 above, 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 these proceedings as if incorporated herein. Also the general conditions for projects stipulated for mining (items 1 to 48) and the following specific conditions, appended hereto and the following specific conditions will be applicable and have to be strictly adhered to.

- 1. Activities relating to Corporate Environmental Responsibilities for an amount of 1.434 lakhs (2% of total project cost) shall be carried out leading to protection and promotion of environment including waste management in the project district as per OM F.No.22-65/2017-IA-III dt.01.05.2018 of MoEF & CC as directed by Director, Environment and supervised by District Collector.
- 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.
- 3. 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.
- 15. The Clearance issued will also be subject to full and effective implementation of all the undertakings given in the application form, mitigation measures as assured in the

Environment Management Plan and the mining features including progressive mine closure plan as submitted with the application and relied on for grant of this clearance. The above undertakings and the conditions and the undertakings in Chapter 4 (Mining), Chapter 5 (Blasting), Chapter 6 (Mines Drainage), Chapter 9 (Environment Management Plan) & Chapter 10 (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.

- 16. Validity of the Environmental Clearance will be five years from the date of this clearance, subject to inspection by SEIAA on annual basis and compliance of the conditions, subject to earlier review of E.C in case of violation or non-compliance of conditions or genuine complaints from residents within the security area of the quarry.
- 17. Compliance of the conditions herein will be monitored by the State Environment Impact Assessment Authority or its authorised offices and also by the regional office of the Ministry of Environment & Forests, Goyt, 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
- iii. The Half Yearly Compliance Report (HYCRs) with its contents of a covering letter, compliance report and environmental monitoring data has to be in PDF format merged into a single document. The email should clearly mention the name of the project, EC No and date, period of submission and to be sent to the Regional Office of MoEFF & CC by email only at email ID <a href="mailto:rosz.bng-mefcc@gov.in">rosz.bng-mefcc@gov.in</a>. Hardcopy of HYCRs shall not be acceptable.

iv. The given address for correspondence with the authorised signatory of the project is Sri.K.M. Mathew, M/s Kuzhuvommannil Granite Metals Pvt Ltd, Kuruvankuzhy P.O.,Pulladu Village, Thiruvalla Taluk, Pathanamthitta district -689548.

> SABITHA S Administrator, SEIAA

To,

Sri.K.M. Mathew
M/s Kuzhuvommannil Granite Metals Pvt Ltd.
Kuruvankuzhy P.O.
Pulladu Village
Thiruvalla Taluk
Pathanamthitta district -689548

#### Copy to,

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

### S'TATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA **GENERAL CONDITIONS** (for mining projects)

- 1. A separate environmental management and monitoring cell with qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- Suitable avenue trees should be planted along either side of the tarred road and open parking 2. areas, if any, including of approach road and internal roads.
- 3. Sprinklers shall be installed and used in the project site to contain dust emissions.
- 4. Eco-restoration including the mine closure plan shall be done at the own cost of the project
- 5: In view of the deep pits left after the excavation, stacking at maximum top level should be carried
- 6. Corporate Environment Responsibility agreed upon by the proponent should be implemented.
- The project proponent shall comply the conditions stipulated by the statutory authorities 7. concerned.
- 8. Tarring /multiple options on the access roads shall be undertaken so as to reduce dust pollution during movement of vehicle.
- Overburden materials should be managed within the site and used for reclamation of mine pit as 9. per mine closure plan / specific conditions.
- Height of benches should not exceed 5 m, and width should not be less than 5 m, if there is no 10. mention in the mining plan/specific condition.
- 11.
- Ground level should be fixed in individual cases separately. No mining operations should be carried out at places having a slope greater than 45°. 12.
- 13. Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB. This condition is applicable only in such cases if a crusher is adjacent to the quarry.
- The workers on the site should be provided with the required protective equipment such as ear 14. muffs, helmet, etc.
- Garland drains with clarifiers to be provided in the lower slopes around the core area to 15. channelize storm water.
- The transportation of minerals should be done in covered trucks to contain dust emissions. 16. The proponent should plant trees at least 5 times of the loss that has been occurred while clearing
  - the land for the project. SEAC should assess the number of trees in each project site before the issuance of EC so as to ensure the promptness in planting.
- Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department.
- A minimum buffer distance of 100m from the boundary of the quarry to the nearest dwelling unit 18. or other structures, not being any facility for mining shall be provided.
- 19. 50 m buffer distance should be maintained from forest boundaries.
- Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be 20. obtained before initiating mining activity.
- 21. All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.
- In the case of any change(s) in the scope of the project, extent quantity, process of mining 22. 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.
- The Authority reserves the right to add additional safeguard measures subsequently, if found 23. necessary, and to take action including revoking of the environment clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
- 24. The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.

- The project proponent should advertise in at least two local newspapers widely circulated in region, one of which (both the advertisement and the newspaper) shall be in the vernacular langual, 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. 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.
- The Environmental Clearance shall be put on the website of the company by the proponent.
   Proponent shall submit half yearly reports in soft copy and SEIAA will upload it on the website.
- 27. Proponent shall submit half yearly reports in soft copy and SEIAA will upload it on the website.
   28. The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font of size of not less than 40. Sign board with extent of lease area and boundaries shall be depicted at the entrance of
- the quarry, visible to the public

  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.
- No change in mining technology and scope of working should be made without prior approval of the SEIAA, No further expansion or modifications in the mine shall be carried out without prior approval of the SEIAA, as applicable.
- 31. The Project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken.
- 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.
- Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, unineral 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.
- Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM<sub>10</sub> and PM<sub>2.5</sub> such as haul Road, loading and unloading points and transfer points it shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
- 35. Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.
- 36. Measures should be taken for control of noise levels below 85 dBA in the work environment.
- 37. The funds earmarked for environmental protection measures and CER activate should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the State Environment Impact Assessment Authority (SEIAA) office.
- 38. The Regional Office of MOEF & CC located at Bangalore shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (S) of the Regional Office by furnishing the requisite data/information/monitoring reports.
- Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- 40. Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- The SEIAA may revoke or suspend the order, for non implementation of any of the specific or thisimplementation 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.

The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or 42. simplified, contained in any other permit, license on consent given by any other authority for the same project. 43.

The Environmental Clearance will be subject to the final order of the courts in any pending

litigation related to the land or project, in any court of law.

The mining operation shall be restricted to above ground water table and it should not intersect 44. ground water table. 45.

All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution taking centre. Washing of all vehicles shall be inside the lease area' 46.

Project proponent should obtain necessary prior permission of the competent authorities for

drawal of requisite quantity of surface water and ground water for the project.

Regular monitoring of flow rates and water quality upstream and downstream of the springs and 47. perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly reports to SEIAA.

Occupational health surveillance program of the workers should be under taken periodically to 48. observe any contractions due to exposure to dust and take corrective measures, if needed.

