



सत्यमेव जयते

Proceedings of the State Environment Impact Assessment Authority Kerala

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

Sub: SEIAA- Environmental clearance for the proposed quarry project in Sy. Nos. 110/1 and 111/3 at Karakunnu Village, Thrikkalangode Panchayath, Ernadu, Malappuram by Sri. Abdul Majeed for M/s Manjery Blue Metal -Granted- Orders issued.

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY

No. 848/SEIAA/EC1/2861/2015

Dated, Thiruvananthapuram 27-04-2016

- Read:-**
1. Application dated 24-07-2015 submitted Sri. Abdul Majeed, Manging Partner, M/s Manjery Blue Metal, Amayoor P.O, Malappuram District-676123
 2. Minutes of the 50th meeting of SEAC held on 30/31-12-2015.
 3. Minutes of the 52nd meeting of SEAC held on 8/9-02-2016.
 4. Minutes of the 51st meeting of SEIAA held on 29-03-2016.

Environmental Clearance No.50/2016.

Sri. Abdul Majeed, Manging Partner, M/s Manjery Blue Metal, Amayoor P.O, Malappuram District-676123, vide his application received on 24-07-2015 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. Nos 110/1 and 111/3 at Karakunnu Village, Thrikkalangode Panchayath, Ernad Taluk, Malappuram District, Kerala for an area of 1.8240 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 18th 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) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares. Other details of the proposal are as follows:

2. Basic information about the project	
Name of the Project	Quarry project of M/s Manjery Blue Metal.
Survey Numbers	Survey Nos. 110/1 pt and 111/3 pt.
Village	Karakunnu
Tehsil	Ernad taluk
District	Malappuram District
Extent of land in hectors	1.8240 ha.
Is the property forest land/Govt. land/ own land	Private own land
Latitude	11°11'05.88" N to 11°10'58.11" N
Longitude	76°6'13.61" E to 76°06'07.18" E
Cluster condition (if any)	There is no quarry in operation within 500 m. radius.
Proposed production capacity	50,000 MTA
Expected life of mine	About 13 Years
Total Project cost	Rs. 2.55 Crores.
Interlinked project (if any)	The quarry is interlinked with a crusher unit existing within the complex. For crusher unit no Environment Clearance is required.
Whether CRZ is applicable	Not applicable
Status of litigation/complaint/cases	Nil as stated by the proponent
Permanent or temporary change on land use, land cover or topography	Yes, The project site is private owned land. There is expected to be change in the land use as mining area in the core zone.
Topography of land and elevation	The highest elevation of the lease area is 110 m. MSL and lowest is 60 m MSL. As the proposed area is hilly, the drainage is towards NW side.
Details of method of working with phasing of activities, height, width of benches.	The proposed method of mining will be semi mechanized open cast mining. The basic mining techniques adopted will be uses of machines. For the systematic working of open cast mines, the main development work will be the forming of systematic benching. The height of bench will not be kept more than 5.0m at a time and the width of the benches will be always kept safe according to provisions. The Mining will be done with the help of tools such as drills, jack-hammer, compressors, hand shovel, picks, excavators etc.
Vegetation	Part of the proposed land is already under mining and there is no vegetation in that area. The remaining land in the proposed land is mostly covered with exposed rock with some native trees, climbers, grass, shrubs, herbs etc.
Change in water bodies due to mining activities	Nil as stated by the proponent
Proneness to natural hazards	Nil as stated by the proponent

Environmental parameters considered	
WATER	
Water (expected use and sources in KLD)	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 unit and 2 KLD for plantation purposes and will be sourced from storm water pond.
Sources of generation and facilities for liquid waste treatment	Not applicable
Water quality meeting requirements	Water quality meeting requirements after the treatment of water (filtration, disinfection & sedimentation).
Water Regime	Pond & wells
LAND	
Access road to the site – Width & Condition	7 m. wide, tarred road, S
Storage of explosives /hazardous substances	Explosives will be stored as per Explosive Act / Rules.
Hazardous waste management	Negligible in quantity like used oil which will be disposed to the local recyclers.
Facility for solid waste management	The municipal solid waste will be disposed as mentioned in PFR and EMP.
Top soil, overburden etc.	3,300 m ³ of top soil and 4,000 m ³ of overburden will be generated; it should be dumped separately at pre-determined place and subsequently should be utilized for spreading over reclaimed areas for plantation. Overburden should be utilized for laying internal haul road and for reclamation of the site or plantation.
Proximity to forest lands	None within the study area
Proneness of the area for landslides	Nil as stated by the proponent
Significant land disturbance resulting in erosion, subsidence & instability	Nil as stated by the proponent
NOISE	
Sources of noise pollution control measures	<p>The major noise generating source from the proposed activity is working machinery, drilling, blasting and plying of vehicles.</p> <p>The following control measures will be undertaken to bring down the noise levels:-</p> <ul style="list-style-type: none"> • Proper maintenance of machinery, equipments and improvement on design of machines. • Use of personal protective devices i.e., earmuffs and earplugs by workers, working in high noise areas. • Creation of wide green belt of dense foliage between mine areas and residential colonies. • It is proposed that the proposed mine operates only ten hours a day. • Conducting periodical medical check-up of all workers for any noise related health problems • Proper training to personnel to create awareness about adverse noise level effects
Noise level monitoring	Planned noise monitoring at suitable locations in the plant and

	outside location for proper effective remedial actions and to comply with the requirement as per rules
AIR	
Air quality meeting requirements	To comply with the requirement as per rules
Likely emissions affecting environment	Mining activities will generate certain quantities of dust during drilling, blasting, loading and transportation operations.
By deposition of pollutants emitted to air into the land or into water	<p>The following measures will be taken to mitigate the fugitive dust from different operations.</p> <ul style="list-style-type: none"> • Laying of haul road as per the standards, black topping of permanent haul road and service road to avoid or eliminate air – borne dust. • To avoid the dust generation from the drilling operations, wet drilling method will be adopted. • Drill machines will be equipped with dust collectors. • Use of appropriate explosives for blasting and avoiding overcharging of blast holes. • Controlled blasting techniques will be adopted. • Watering of haul road and other road at regular intervals. • Provision of dust filters/ mask to workers working at highly dust prone and affected areas. • Provision of green belt all along the periphery of the lease area. • Periodical monitoring of ambient air quality in and around the lease area. <p>The extracted mineral will be transported from the quarry to the end user by adopting following measures so as to minimize dust emissions.</p> <ul style="list-style-type: none"> ➤ In case of long transportation the trucks after loading will be covered with tarpaulin sheets. ➤ Speed of the vehicles will be maintained within the prescribed limits. ➤ Trucks will not be over loaded and will be maintained to the body level. <p>Crusher unit</p> <p>The following measures are being taken to control the dust emissions</p> <ul style="list-style-type: none"> ➤ The unit is based on latest green technology and the entire unit is closed loop with proper control strategies ➤ The unit is well equipped with dust suppression system at all traverse points to control the dust emissions. ➤ Closed conveyor system with water sprinkling arrangements are adopted in this unit ➤ Sufficient water is used to maintain the moisture content to control the fugitive emissions throughout the system.
ENERGY	
Energy requirement	The total power requirement will be 75 kW for compressions, which will be drawn from diesel engine.
BIODIVERSITY	
Presence of any endangered species or	Nil as stated by the proponent.

red listed category			
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. Restoration of all species should be done at the end of life of mine.		
Eco restoration programmes	At the end of life of mine, 1.822 ha. (1.672 ha. reclaimed & rehabilitated by plantation + 0.15 ha. green belt) excavated pit will be backfilled and reclaimed and rehabilitated by plantation (about 1,800 trees) with native species so as to restore the natural eco-system.		
Areas which are important or sensitive for ecological reasons – Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountain, forests	Lake	Chaliyar river, 10 km. NE	
	Reservoir	Nil as stated by the proponent	
	Forest	Nil as stated by the proponent	
SOCIAL ASPECTS			
CSR related to the project	SLNo.	Particulars	Amount Rs. In lakhs
	1.	Education	Recurring = Rs. 1.0 lakhs Non-recurring = Rs. 2.55 lakhs
	2.	Health	Recurring = Rs. 1.10 lakh Non-recurring = Rs. 1.66 lakhs
	3.	Community Development	Recurring = Rs. 4.0 lakhs Non-recurring = Rs. 2.0 lakhs
	4.	Ensuring environmental sustainability	Recurring = Rs. 3.0 lakhs Non-recurring = Nil
	5.	Reduction in carbon footprint & CO ₂ emission	Recurring = Nil Non-recurring = Rs. 0.90 lakhs
		Total	Recurring = About Rs. 9.10 lakhs Non-recurring = About Rs. 7.11 lakhs
A detailed study on social status of the project site surroundings & need base study on proposed CSR activities were carried out. The summary of the report is provided.			
GENERAL			
Details of Authorised Signatory & Address for correspondence)	Mr. Abdul Majeed P. (Managing Partner) M/s Manjery Blue Metal, Amayoor P.O., Manjery Via., Ernad Taluk, Malappuram District, Kerala-676123.		
Details of NABET approved EIA consultant Organisation	M/s Environmental Engineers & Consultants Pvt. Ltd. (at Sr. No. 58 as per MoEF & CC list of Accredited Consultant Organization) Head Office :- A1-198, Janak Puri, New Delhi. Branch Office:- C-306, Kanchanjunga Apartments, Palarivattom P.O., Kochi, Kerala.		

3. The proposal was first considered in 50th meeting of SEAC held on 30/31-12-2015 and deferred the proposal as the proponent was absent. As per the request from the proponent the proposal was again considered by SEAC in its 52nd meeting held on 8/9-02-2016.

4. The Committee appraised the proposal based on Form-1, Prefeasibility Report and other details provided by the proponent. The proponent informed that the quarry is now under operation, which amounts to violation. The Committee felt that a small portion of the quarry worked needs to be provided for rain water storage. The Committee Recommended for issuance of EC on completion of action against violation, subject to following specific conditions in addition to the general conditions stipulated for mining projects.

1. To the extent possible local biodiversity management Committee shall be involved in the environmental management/restoration activities.

2. Reclamation and eco-restoration should be done by planting native species.

5. The proposal was considered by SEIAA in its 51st meeting held on 29-03-2016. As regards the question of violation quarries were brought under E.C regime only after 27.02.2012, consequent on order of Supreme Court in Deepak Kumar's case. Even therefore the state Government had permitted quarries to work without E.C up to early 2015. Though the issue was considered by Court, there was no decision to take violation proceedings. There is also High Court Judgement doing away with requirement of E.C in the case of quarries which was operational before coming into effect of KMMC Rules 2015. The matter is now with Supreme Court in which there is an interim order for status 'quo'. If the mining area of the quarry is less than 5 ha it seems that violation proceedings would not be attracted, if it comes within the purview of the Government order (Ind. Dept.) on mining without E.Cs. Authority decided to grant E.C subject to the specific and general conditions and the result of S.L.P No. 30103/2015 of the Supreme Court of India.

6. The grant of E.C is also subject to production of no cluster certificate and general conditions stipulated for mining projects and the mitigation measures undertaken in the EMP in the PFR. However if any genuine complaints about the quarry is received, E. C issued shall be reviewed.

7. Validity may be five years subject to inspection by SEIAA on annual basis and compliance of the conditions, subject to earlier review of E.C in case of violation or non-compliance of conditions or genuine complaints from residents within the security area of the quarry. Environmental Clearance is therefore granted to the quarry project Sri. Abdul Majeed (Manging Partner), M/s Manjery Blue Metal, Amayoor P.O, Malappuram District-676123 Kerala subject to the general conditions annexed hereto.

8. The clearance issued will also be subject to full and effective implementation of all the undertakings given in the application form, mitigation measures as assured in the Environment Management Plan and the mining features including progressive mine closure plan as submitted with the application and relied on for grant of this clearance. The above undertakings and the conditions and undertakings in chapter 4 of Mining plan (Mining), Chapter 5 of Mining plan (Blasting), Chapter 11 (EMP) of the Mining Plan, Chapter 1.4.6 of PFR (Disaster Management), and the Chapter 5 of Mining plan (Progressive Mine Closure Plan) as submitted will be deemed to be part of these proceedings as conditions as undertaken by the proponent, as if incorporated herein.

9. Compliance of the conditions herein will be monitored by Authority or its agencies at occasions as may be decided by the Authority, and also by the regional office of the Ministry of environment & forests, Govt. of India, Bangalore.

- i) Necessary assistance for entry and inspection should be provided by the project proponent and those who are engaged or entrusted by him to the staff for inspection or monitoring.
- ii) Instances of violation if any shall be reported to the District collector, Thrissur to take legal action under the Environment (Protection) Act 1986.

10. The given address for correspondence with the authorised signatory of the project is Sri. Abdul Majeed (Manging Partner), M/s Manjery Blue Metal, Amayoor P.O, Malappuram District-676123.

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

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

To,

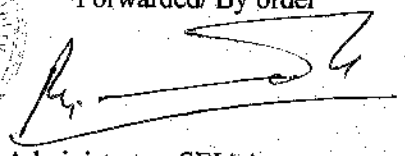
Sri. Abdul Majeed (Manging Partner),
M/s Manjery Blue Metal,
Amayoor P.O,
Malappuram District-676123

Copy to:

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E& F Wing, II block, Koramangala, Bangalore-560034.
2. Principal Secretary to Government, Environment Department.
3. The District Collector, Malappuram.
4. The Director, Department of Environment & Climate Change.
5. The Director, Mining and Geology Department, Kesavadasapuram, Thiruvananthapuram-4
6. The Secretary, Thrikkalangaode Grama Panchayath, Karakkunnu P.O.-676123
7. Chairman, SEIAA
8. E.C File
9. Stock File
10. O/C.



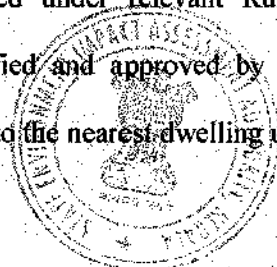
Forwarded/ By order


Administrator, SEIAA

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA

GENERAL CONDITIONS (for mining projects)

1. Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified.
2. Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.
3. Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, including of approach road and internal roads.
4. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.
5. Sprinklers shall be installed and used in the project site to contain dust emissions.
6. Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.
7. At least 10 percent out of the total excavated pit area should be retained as water storage areas and the remaining area should be reclaimed with stacked dumping and overburden and planted with indigenous plant species that are eco-friendly, if no other specific condition on reclamation of pit is stipulated in the E.C.
8. Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented.
9. **The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mining. All the boundary indicators (boards, stores, markings, etc) shall be protected at all times and shall be conspicuous.**
10. Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.
11. Control measures on noise and vibration prescribed by KSPCB should be implemented.
12. Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.
13. Blasting should be done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency.
14. A licensed person should supervise/ control the blasting operations.
15. Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.
16. Overburden materials should be managed within the site and used for reclamation of mine pit as per mine closure plan / specific conditions.
17. Height of benches should not exceed 5 m, and width should not be less than 5 m, if there is no mention in 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. 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 PM₁₀ and PM_{2.5} such as haul Road, loading and unloading points and transfer points – it shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
 46. Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.
 47. Measures should be taken for control of noise levels below 85 dBA in the work environment.
 48. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
 49. The funds earmarked for environmental protection measures and CSR activate should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the State Environment Impact Assessment Authority (SEIAA) office.
 50. The Regional Office of MOEF & CC located at Bangalore shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (S) of the Regional Office by furnishing the requisite data/information/monitoring reports.
 51. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
 52. Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
 53. The SEIAA may revoke or suspend the order, for non implementation of any of the specific or this implementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
 54. The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license or consent given by any other authority for the same project.
 55. This order is valid for a period of 5 years or the expiry date of mine lease period issued by the Government of Kerala, whichever is earlier.
 56. The Environmental Clearance will be subject to the final order of the courts in any pending litigation related to the land or project, in any court of law.
 57. The mining operation shall be restricted to above ground water table and it should not intersect ground water table.
 58. All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution taking centre. Washing of all vehicles shall be inside the lease area'
 59. Project proponent should obtain necessary prior permission of the competent authorities for drawal of requisite quantity of surface water and ground water for the project.
 60. Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly reports to SEIAA.
 61. Occupational health surveillance program of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.


For Member Secretary, SEIAA Kerala

G. RAJEEV
Administrator
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