



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 quarry project in Sy. No. 232 and 411(Pt), at Mangalam Dam Village, Mangalam Dam Panchayath, Alathur Taluk, Palakkad District by Sri. Tom George, Managing Director, M/s. TMT Granites Pvt. Ltd. -
Granted- Orders issued.

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY

No. 570/SEIAA/EC1/4174/2014

dated, Thiruvananthapuram 23-04-2016

- Read:-**
1. Application dated 12-08-2015 submitted by Sri. Tom George, Managing Director, M/s. TMT Granites Pvt. Ltd., Kizhakkeparambil House, Mangalam Dam P.O., Palakkad.
 2. Minutes of the 49th meeting of SEAC held on 07-08/12/2015.
 3. Minutes of the 48th meeting of SEIAA held on 23-01-2016.
 4. Minutes of the 51st meeting of SEIAA held on 29-03-2016.

Environmental Clearance No. 49/2016.

Sri. Tom George, Managing Director, M/s. TMT Granites Pvt. Ltd., Kizhakkeparambil House, Mangalam Dam P.O., Palakkad (D) vide his application received on 26/08/2014 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. No. 232 and 411(Pt) at Mangalam Dam Village, Mangalam Dam Panchayath, Alathur Taluk, Palakkad District for an area of 4.8221 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II (M) dated 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) dated 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares. Other details of the proposal are as follows:

BASIC INFORMATION OF THE PROJECT		
File No.		570/SEIAA/KL/4174/2014
Name of project		M/s. TMT Granites Pvt. Ltd.
Brief description of the project		Open cast mining
Category/Subcategory & Schedule		"B" Category, 1(a)
Location Sy no/ district, Taluk/ village etc.		Sy.No- 232 & 411 (pt), Mangalam dam Village, Alathur Taluk, Palakkad District of Kerala State
GPS co-ordinates		Longitude: 76° 32' 12.44" E to 76° 32' 18.63" E Latitude: 10° 32' 10.88" N to 10° 32' 18.63" N
for Mining projects	Extent of area (in hectares)	4.8221
	Minimum and maximum height of excavation MSL)	125m MSL- Maximum and 95m MSL- Minimum
	Life of mine proposed	14 years
	Ultimate depth of mining (in MSL)	40m above MSL
	Distance from the adjacent quarry	150m-SE
	Capacity of production	4,04,000 tonnes per year
	Details of project cost	Total Project Cost-15 Crores
	Financial statement including funding source and details of insurance	HDFC Bank Loan- Rs 8.4 Crores
ABOUT THE PROJECT		
Environmental parameters considered	Description	
WATER		
Water requirement & sources	Domestic consumption 1.6 KLD, Dust suppression:3 KLD Watering the plantation:10 KLD Source - Storm water pond and bore well	
RWH units proposed	10% of the lease area (0.4822 Ha) will be converted as RWH during mine closure plan.	
Facilities for liquid waste treatment	Liquid wastes from toilet and office will be treated in septic tank and soak pit	
Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	Nil	
Water quality meeting requirements	To comply with the requirements as per rules.	
Does it have provisions for use of recycled water	Yes	
LAND		
Proximity to forest lands	Peechi vazhani wildlife- 12.36 km-SW Chimminy Wildlife Sactuary-13 km-S	
Access road to the site -Width & Condition	8m-NW	
Storage of explosives /hazardous substances	Explosives will be procured, stored, transported, handled and used in accordance with Indian Explosive Act 1884, MSIHC Rules 1989, Mines Act, 1952 and regulations there	

	under			
Facility for solid waste management	Solid waste will be stacked at designated places during the quarry operations and will be utilized for reclamation work during mine closure plan.			
Topographic features/ slope	Entire lease area is exposed by massive Charnockite with a top soil thickness of less than 0.5m. Length of the ore body: Ranging from 210-422m (Average 316m) Width of the ore body: Ranging from 108-145m (Average 105 m)			
Proneness of the area for landslides	The material exposed in the quarry is Charnockite, which is hard in nature and as per the seismic zone map, the project site falls under zone III (moderate).			
Significant land disturbance resulting in erosion, subsidence & instability	No, quarry area is not susceptible to natural hazard as there is no history of such incidents.			
Top soil, overburden etc.	Topsoil – 17,000 tonnes Overburden – 1,78,000 tonnes			
AIR				
Air quality meeting requirements	To comply with the requirements as per rules.			
Noise level meeting requirements	Noise level survey was carried out in four corners of the project site both in day time as well as in night time.			
Likely emissions affecting environment	Due to quarry activity and operation of heavy earth moving machinery generation of dust, noise is likely. However, mitigative measures are proposed accordingly in the EMP			
ENERGY				
Energy requirement	Power supply is required for office, canteen Which is from KSEB. Quarry operations are mainly by HEMM which are operated by HSD.			
Energy sources	No energy is required for quarry operation, since quarry operation is carried out by HEMM which are operated by HSD. About 80 litres/Hour of HSD is required in a day			
Extent of usage of alternative energy resources	DG Set-2 Nos with a capacity of 500 HP is installed for power backup.			
BIODIVERSITY				
Presence of any endangered species or red listed category	There are no endangered or rare species in the area as stated by the proponent.			
Loss of native species and genetic diversity	There will not be any loss of native species of genetic diversity as the quarry already exists and continuation of the same will not affect or loss of native species in general.			
Likely displacement of fauna	None			
Any introduction of alien / invasive species	None			
SOCIAL ASPECTS				
Proximity to nearest habitation	237m-SW			
CSR related to the project/ allocation/ time frame (details mandatory)	The details of proposed CSR activities are given below:			
	CSR Activities	Beneficiary	Year	Amount
	Financial assistance will be provided to upgrade the present drinking water facility of neighboring colony of Cheruchal and Pannikulambu.	Vandazhy Panchayath	Yearly	1,00,000.00
	Providing an ambulance to	Vandazhy &	2017	5,00,000.0

	Vandazy Panchayath	nearby Village.		
	Decided to donate one Mobile freezer to SNDP Mangalam Dam.	Mangalam Dam	2016	1,50,000.00
	Donation to Yatheem Khana at Anjumoorthy Mangalam.	Vadakkencherry, Mangalam.	Yearly	50,000.00
	Financial assistance to Old age Home "Daivadhan" at mangalam.	Vadakkencherry, Mangalam.	Yearly	50,000.00
	Considering the relatively higher content of total dissolved solids, trace metals and coliform bacteria it is proposed to install a water purifying unit with a Reverse Osmosis facility, so as to improve the quality of water and make it potable	Staff of TMT Granites and needy people	2016	1,00,000.00
	Financial assistance for poor and needy people who are undergone treatment at St. Joseph's Hospital, Mangalam Dam.	Mangalam dam village	Yearly	50,000.00
Total				10,00,000/-
GENERAL				
Does it propose environment management plan		As stated in the EMP of Mining Plan and PFR		
Does it have eco restoration programmes		As stated in the Chapter 6, EMP of PFR		
Litigation/ court cases, if any against the project (Provide details)		There are no litigations against the project as stated by the proponent		
SEAC meetings/ ADDITIONAL CLARIFICATIONS				
Details of Authorised Signatory		Sri. Tom George, Managing Director, M/s. TMT Granites Pvt. Ltd., Kizhakkeparambil House, Mangalam Dam P.O., Palakkad (D) E-mail: tmtgranites2011@gmail.com		
Details of NABET approved EIA consultant organisation		M/s Overseas Min-Tech Consultants NABET/EIA/1417/1A003 5 th Floor, Apex Tower, Tonk Road, Jaipur-302015		
<p>3. The proponent has submitted approved mining plan as per KMMC Rules-2015. The proponent has also filed a W.P (C) before the Hon. High Court as-W.P (C) No. 28994/2015, The Hon. High Court has passed the judgement dated 30th September 2015 as follows;</p> <p><i>".....a direction to the respondent to consider the application submitted by the Petitioner in any of the next meeting, or if not possible in the meeting thereafter".</i></p>				

4. To comply with the Hon. High Court order SEAC considered the proposal in its 49th meeting held on 7/8-12- 2015. The proponent has informed that the quarry was working with permit for the last 4 years. The annual production proposed is 4,00,000 MTA. The nearest river is at a distance of more than 200m from the proposed area. A crusher unit is associated with the quarry unit. The proponent also informed that the ultimate depth of quarrying shall be limited to 10m above the ground water level. The committee observed some buildings near the quarry and the proponent informed that those are not used for dwelling purpose. The highest and lowest elevation of the proposed area is 125m AMSL and 95m AMSL respectively. The slope is towards South-West direction.

5. The Committee appraised the proposal based on the Mining Plan, Prefeasibility Report and all other documents submitted along with the Form-I application and decided to *Recommend* for issuance of Environmental Clearance for mining with following specific conditions, in addition to the general conditions stipulated for mining projects.

1. The buildings seen adjacent to the proposed unit shall not be used for dwelling purpose.
2. A comprehensive community drinking water scheme for the project and the nearby area should be provided as part of Social Responsible Activity.

6. The proposal was considered by SEIAA in its 48th meeting held on 23rd January 2016. The Authority decided to visit the site and to assess the situation as the committee has not conducted site visit.

7. As decided in the 48th meeting of SEIAA held on 23-01-2016, the Chairman SEIAA accompanied by the Administrator visited the quarry project site of Sri. Tom George in survey No. 232 and 411(pt) at Mangalam dam Village, Alathur Taluk , Palakkad district at 9.30 a.m on 11-3-2016. The proponent and staff were present at site. The report is as follows:

"It was informed that quarrying at the site commenced from 2008. Permit for quarrying in 4.8 ha was obtained in 2010. But as per directions of the Mining & Geology Department in 2014, the mining area was reduced to 1ha. The entire mining area as proposed for E.C is their own land. No Government land is involved. They have 100 acres there. Road to the quarry from the near PWD road is maintained by them. They have got an award from Kerala Paristhithi Samrakshana Janakeeya Samithi, Ernakulam for conservation of environment.

The mining area is surrounded by young teak plantation. Also rubber plantation is there in the land owned by the proponent. No dwelling units are seen nearby except the buildings belonging to the quarry, used for canteen and workshop. The immediate neighbouring quarry is at Chittady, 4 kms away. They have permit up to 5/2016. Except for sale to the local people, stone is not transported out of the site. It is being used in their crusher nearby. No water bodies are seen nearby. E.C applied for is for the entire 4.822 ha for which lease has been received for 14 years. There are no complaints against functioning of the quarry at that place.

It is found that quarrying has been done in the areas where the unit does not have permit at present. Quarrying is not scientific. Benches are not properly formed. There are no other environmental or social issues. E.C may be granted subject to the condition that mining shall be strictly in accordance with the approved mine Plan and the buildings (canteen, workshop) very close to the mining area shall be relocated to safe distance".

8. The proposal was considered by SEIAA in its 51st meeting held on 29-03- 2016. The Authority examined the inspection report and decided to grant E.C subject to the general conditions stipulated for mining projects and the mitigation measures undertaken in the EMP in the PFR and the additional condition that "mining shall be strictly in accordance with the approved mine plan and the buildings (canteen, workshop) very close to the mining area shall be relocated to safe distance". However if any genuine complaints about the quarry is received, E. C issued shall be reviewed.

9. 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 of Sri. Tom George, Managing Director, M/s. TMT Granites Pvt. Ltd., Kizhakkparambil House, Mangalam Dam P.O., Palakkad (D), Kerala subject to the specific conditions in para 5 above and that mining shall be strictly in accordance with the approved Mine Plan. The buildings (canteen, workshop) adjacent to the mining area shall be relocated to safe distance. The general conditions annexed hereto, shall also be strictly adhered to.

10. 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 Chapter 5 of the Pre-feasibility report and the mining features including progressive mine closure plan as submitted with the application and relied on for grant of this clearance. The above undertakings and the conditions and undertakings in chapter 4 of Mining plan (Mining), Chapter 5 of Mining plan (Blasting), Chapter 11 of the Mining Plan (EMP), Chapter 12 of Mining Plan (Progressive Mine Closure Plan) and Chapter 4.3.9 of PFR (Disaster Management) as submitted will be deemed to be part of these proceedings as conditions as undertaken by the proponent, as if incorporated herein.

11. Validity of the environmental clearance will be five years from the date of this clearance, subject to earlier review in the event of violation or non-compliance of any of the conditions stipulated herein or genuine complaints from residents within the security area of the quarry.

12. Compliance of the conditions herein will be monitored by the Authority or its agencies and also by the regional office of the Ministry of environment & forests, Govt. of India, Bangalore.

- i) Necessary assistance for entry and inspection should be provided by the project proponent and those who are engaged or entrusted by him to the staff for inspection or monitoring.

ii) Instances of violation if any shall be reported to the District collector, Palakkad to take legal action under the Environment (Protection) Act 1986.

13. The given address for correspondence with the authorised signatory of the project is Sri. Tom George, Managing Director, M/s. TMT Granites Pvt. Ltd., Kizhakkeparambil House, Mangalam Dam P.O., Alathur, Palakkad-678706.

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

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

To,

Sri. Tom George,
Managing Director,
M/s. TMT Granites Pvt. Ltd.,
Kizhakkeparambil House,
Mangalam Dam P.O.,
Alathur,
Palakkad-678706

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, Palakkad
4. The Director, Department of Environment & Climate Change.
5. The Director, Mining and Geology Department, Kesavadasapuram, Thiruvananthapuram-4
6. The Secretary, Vandazhy Grama Panchayat, Vandazhy, Mangalam Dam P.O., Alathur, Palakkad-678706
7. Chairman, SEIAA
8. Website
9. Stock File
10. O/C.



Forwarded/ By order

Administrator, SEIAA

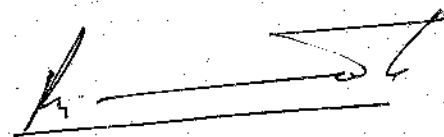
STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA

GENERAL CONDITIONS (for mining projects)

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

30. Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating mining activity.
31. All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.
32. In the case of any change(s) in the scope of the project, extent quantity, process of mining technology involved or in any way affecting the environmental parameters/impacts as assessed, based on which only the E.C is issued, the project would require a fresh appraisal by this Authority, for which the proponent shall apply and get the approval of this Authority.
33. The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
34. The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
35. The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Environment Impact Assessment Authority (SEIAA) office and may also be seen on the website of the Authority at www.seiaakerala.org. 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

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY
Kerala
Office of the Member Secretary
SEIAA Kerala
P.O. Box 100, Kottayam - 686 001
Kerala
Phone: 0471-2781204

