

Proceedings of the State Environment Impact Assessment Authority Kerala

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

Sub: SEIAA- Environmental clearance for the proposed quarry project in Sy. No. 168 at Anakkayam Village, Anakkayam Panchayat, Ernadu Taluk, Malappuram District by Sri. V. Hashim, M/s Pullanchery Granite Industries –E.C. Granted- Orders issued.

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY

No. 825/SEIAA/EC1/ 2608/2015

dated, Thiruvananthapuram 28-07-2016

- Read:- 1. Application dated 25-06-2015 submitted by Sri. V. Hashim, Partner M/s Pullanchery Granite Industries, P.O. Pullanchery, Manjery, Malapuram, Kerala-676122
 - 2. Minutes of the 48th meeting of SEAC held on 06/07-11-2015.
 - 3. Minutes of the 55th meeting of SEAC held on 10/11-05-2016.
 - 4. Minutes of the 54th meeting of SEIAA held on 21-06-2016.

Environmental Clearance No. 121/2016.

Sri. V. Hashim, Partner, M/s Pullanchery Granite Industries, Pullanchery, P.O., Manjery, Malapuram, Kerala-676122 vide his application received on 08/07/2015 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. No. 168 at Anakkayam Village, Anakkayam Panchayat Ernadu Taluk, Malappuram District for an area of 4.1496 hectares. The project comes under Category B/B2, 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) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares. Other details of the project are as follows:

Basic Details				
Name of the Project	Quarry project of M/s Pullanchery Granite Industries			
Survey Numbers	Survey No. 168			
Village	Anakayam			
Tehsil	Ernad			
District	Malappuram			
Extent of land in hectors	4.1496 hectares			
Is the property forest land/Govt.	Private own land			
land/ own land				
Latitude (N)	11°05'44.12" to 11°05'35.48"			
Longitude (E)	76°08'41.12" to 76°08'32.52"			
Extent of area (in hectares)	4.1496 hectares			
Minimum and maximum height of	56 m MSL to 111 m. MSL			
excavation (MSL)				
Life of mine proposed	About 10 years			
Distance of mining area from	About 105m in SE side from the site.			
nearest human settlement				
Ultimate depth of mining (in MSL)	56 m. MSL			
Distance from the adjacent quarry	There is no quarry in operation within 500m.			
Cluster condition (if any)	There is no quarry in operation within 500m			
Proposed production capacity	1,60,000 MTA			
Expected cost of the project	Rs. 2.244 Crores			
Interlinked project (if any)	Stone Crusher within the site			
	NA			
Whether CRZ is applicable	Nil as declared			
Status of	1411 aro accidios			
litigation/complaint/cases Permanent or temporary change	The project site is private owned land. There is expected			
on land use, land cover or	to be change in the land use as mining area in the core			
	zone. The highest elevation of the lease area is 111 m.			
topography	MST and lowest is 56 m MSL. As the proposed area is			
	hilly the drainage is towards south-east. However, any			
	other significant impact will be confined within the lease			
	area			
Topography of land and elevation	Part of the proposed land is exposed rock and the			
Topography or same one one	remaining land is covered with native trees, shrubs, neros,			
	grass, climbers, bushes etc. The topography of the lease			
	area is hilly. As the proposed area is hill rock, the drainage			
	of the lease area is towards south-east. No habitants are			
	located in the lease area.			
Vegetation	Part of the proposed area is an existing quarry and this area			
,	is devoid of any vegetation. The remaining area for			
·	proposed quarry has native trees, climbers, grass, shrubs,			
	herbs etc. There is no existing building in the proposed area.			
Nearest water body	Kadalundipuzha, 0.6 km., SE			
	Chaliyar River, 14 km., N			
Change in water bodies due to	No. The water body Kadalundipuzha is located at 0.6 KM			
mining activities	South East from the site.			
Proneness to natural hazards	None			
Environmental parameters considered				
WATER				
Water (expected use and sources	The total water requirement is about 15 KLD in which 1			
	Page 2 of			

in KLD)	KLD is for domestic which would be sourced from open well, 12 KLD for dust suppression system in mine as well as ancillary unit (Crusher / M sand Unit) and 2 KLD for plantation purposes and will be sourced from storm water pond	
Sources of generation and facilities for liquid waste treatment	There will be no industrial waste generation due to proposed project.	
Water quality meeting requirements	Water quality requirements to meet as per rules after the treatment of water (filtration, disinfection & sedimentation). LAND	
Access road to the site –Width & Condition	6 m., tarred road, E	
Proximity to forest lands	None within the study area	
Storage of explosives /hazardous substances	Considering low consumption, a 550 kg magazine is for storing the explosive. The magazines are exists within the complex	
Hazardous waste management	Industrial Waste Management There will be no industrial waste generation due to proposed project. Solid Waste Management About 12,449 cu. m. of top soil is estimated from the pit of the proposed mine. Other than top soil, about 6,224 cu. m. of overburden will be generated throughout the mine life	
Facility for solid waste management Top soil, overburden etc.	A total quantity of 12,449 cu. m. of topsoil and 6,224 cu. m of over burden will be removed during the mining operations. The topsoil excavated from the quarry will be dumped separately at pre-determined place and subsequently will be utilized in spreading over reclaimed areas for plantation. OB will be utilized for laying internal haul road and will form base in reclamation / plantation. Top soil: 12,449 cu. m. Overburden: 6,224 cu. m.	
EnvtMgmt	MANAGEMENT PLAN:	
restoration plan (brief details Air pollution	 Mining activities will generate certain quantities of dust during drilling, blasting, loading and transportation operations. The following measures will be taken to mitigate the fugitive dust from different operations. 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 	

	 Periodical monitoring of ambient air quality in and around the lease area. The extracted mineral will be transported from the quarry to the end user by adopting following measures so as to minimize dust emissions. 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
Water pollution	Provision of storm water collection pond with appropriate
''the parameter	capacity. The water requirement for sprinkling on sources
	of dust emission, on roads, landscaping etc. Can be met from the stored rainwater in the pond.
Noise	The major noise generating source from the proposed activity is working machinery, drilling, blasting and plying
	of vehicles. The following control measures are to be
	undertaken to bring down the noise levels:-
·	Proper maintenance of machinery, equipments and improvement on design of machines.
	4 975 41 997 (599.75) (1.128.75)
	• Use of personnel protective devices i.e., earmuffs and earplugs by workers, who are working in high noise
3"	generating areas.
	Creation of wide green belt of dense foliage between mine areas and residential colonies related health
	problems Proper training to personnel to create awareness about
	adverse noise level effects.
	Planned noise monitoring at suitable locations in the plant and outside location for proper effective remedial
	actions.
Solid Waste	Topsoil Management
Management	•
	A total quantity of 12,449 cu. m. of topsoil is proposed to removed during the mining operations. The topsoil excavat from the quarry will be dumped separately at pre-determin place and subsequently will be utilized in spreading or reclaimed areas for plantation. Precautions will be taken
	limit the height of the topsoil dump to 5 to 6 meters in order preserve its fertility and shelf life. It will be suitably protect
	from soil erosion and infertility by planting fodder grass a
!	leguminous plants during temporary storage.
	Overburden Management
	About 6,224 cu. m of overburden will be generated
	throughout the mine life. This waste will be utilized within
	the pit for lying of haul roads. At the end use, OB can be reutilized as soil base for plantation.
Eco restoration	The year wise programme of eco-restoration for the life of
Eco restoration	mine, about 4,000 trees will be planted in an area of 3.9396 ha
	HX

		NOISE			
	urces of noise pollution control		various mining operation like drilling		
measures		blasting/vehicular. Noise standards will be maintained as per			
<u> </u>	<u>. </u>	rules applicable. AIR			
Likely emissions affec	ting	Emissions from the ve	hicles only		
environment			Lamssions from the venicles only.		
Air quality monitoring		Air quality to be as pe	Air quality to be as per rules.		
Energy requirement		ENERGY III			
Livingy requirement		compressors which wi	The total power requirement will be 75 kW for compressors which will be operated by Diesel Engine.		
		BIODIVERSITY	ov operated by Dieser Englise.		
	sence of any endangered		No.		
species or red listed cat		The same area of	25 1330 og		
diversity			The some area of proposed quarry has native trees, climbers, grass, shrubs, herbs etc		
Eco restoration program	nmes	The year wise progran	ame of eco-restoration for the life of		
l			mine, about 4,000 trees will be planted in an area of 3,9396		
ha. SOCIAL ASPECTS					
Proximity to nearest		SOURCE REFECTS			
densely populated	Nearest Tov	vn Manjeri 5 km, NW dir	ection		
or build-up area					
SLNo	Sl.No.	Particulars	Ommon CSR Budget Amount Rs. In lakhs		
		frastructure	Recurring: Rs. 2.50 Lakhs		
	de	evelopment	Non Recurring: 5.75 Lakhs		
÷	2 So	cholarship and	Recurring: Rs. 3.70 Lakhs		
CSR related to the	Sponsorship programme		Non Recurring: Rs. 1.33 Lakhs		
project	3 H	elp for helpless	Recurring: Rs. 4.05 Lakhs		
, 	4 Ei	nsuring environmental	Non Recurring: Rs. 3.50 Lakhs Recurring: Rs. 3.0 Lakhs		
	100 (100)	stainability	Non Recurring : Nil		
in .	5 R	eduction in carbon	Recurring: NII		
	fo	otprint & CO ₂ emission	Non Recurring: Rs. 0.90 Lakhs		
		GENERAL			
Details of Authorised Si	gnatory &	Mr. V. Hashim, Partner			
Address for corresponde	nce)	M/s Pullanchery Granite Industries,			
- PALA#1		P.O. Pullanchery, Manjeri, Malappuram District,			
		Kerala-676122.			
Details of NABET appro			gineers & Consultants Pyt I td		
consultant Organisation		M/s Environmental Engineers & Consultants Pvt. Ltd. (Sr. No. 58 as per MoEF&CC list of Accredited Consultant			
		Organization)			
		Head Office:-A1-198, JanakPuri, New Delhi.			
B C		Branch Office:-			
			C-306, Kanchanjunga Apartments,		
		Palarivattom P.O., Kochi, Kerala			
			i, ixciaia		

3. The proposal was first considered by SEAC in its 48th meeting held on 06/07-11-2015. Further to the intimation of SEAC, the proponent along with the consultant attended the meeting and the consultant made a brief power-point presentation.

The quarry was in operation since 1994-95 with short term permits. A crusher unit having capacity of 100 tons/day is associated with the project. Even though there are other quarries seen in the satellite image, the Geologist has certified that there is no quarry within 500m radius. The Committee deferred the proposal for field inspection.

4. The sub-committee of SEAC consisting of Dr. Khaleel Chovva and Dr. P.S. Harikumar visited the quarry project on 27-3-16. The proponent Sri. V. Hashim was present at the site. The site inspection report is as follows:

"It is an existing quarry. Crusher unit is also found nearby. Open cast semi mechanized method is practiced. Benching is just started. The drainage from the quarry is collected in a pit. Vegetation is seen around the quarry which is having status of Least Concern. No houses or settlements are noticed in the nearby area.

May be recommended for issuance of Environmental Clearance with the following specific conditions, in addition to the general conditions stipulated for mining projects

- 1. Proper fencing and sign boards must be fixed all around
- 2. The approach road is properly maintained. Entry of large vehicles may be restricted.
- 3. Desiltation/water clarification method should be practised before the water is let out. The deposited silt must be removed periodically
- 4. The top soil and overburden should be stacked in a designated place on the lower elevation. It must be preserved for the eco-restoration of the quarried area
- 5. Involve local biodiversity management Committee for the environmental management/restoration activities.
- 6. Reclamation and eco-restoration should be done by planting native species".
- 5. On receipt of the inspection report the proposal was again placed in 55th meeting of SEAC held on 10/11/20-05-2016. The Committee appraised the proposal based on Form I, Pre-Feasibility Report, Mining Plan and Field Inspection Report. The Committee recommended the proposal for issuance of EC with the general conditions and also subject to the following specific conditions.
 - 1. Proper fencing and sign boards must be fixed all around
 - 2. Desiltation/water clarification method should be practised before the water is let out. The deposited silt must be removed periodically
 - 3. The top soil and overburden should be stacked in a designated place on the lower elevation. It must be preserved for the eco-restoration of the quarried area.
- 6. The proposal as recommended by SEAC was considered by SEIAA in its 54th meeting held on 21-06-2016. Authority accepted the recommendations and decided to issue

Environmental Clearance subject to the specific conditions suggested by SEAC and the general conditions for mining project.

- 7. Environmental Clearance under the EIA notification 2006 is therefore granted to the quarry project of M/s Pullanchery Granite Industries in 4.1496 ha comprised in Sy. No. 168 at Anakkayam Village, Anakkayam Panchayat, Ernadu Taluk, Malappuram District, subject to the specific conditions in para 5 above and the general conditions for mining projects. The grant of E.C is also subject to production of non-cluster certificate, affidavit, 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.
- 8. Validity will 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.V. Hashim, Partner, M/s Pullanchery Granite Industries, Pullanchery, P.O., Manjery, Malapuram, Kerala 676122 subject to the general conditions annexed hereto.
- 9. 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 (Blasting), Chapter 6 (Mine drainage), Chapter 11 (EMP), chapter 4.3.8, of PFR (Risk Assessment & Disaster Management) and the entire 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.
- 10. 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, Malappuram to take legal action under the Environment (Protection) Act 1986.
- 11. The given address for correspondence with the authorised signatory of the project is Sri. V. Hashim, Partner M/s Pullanchery Granite industries, P.O. Pullanchery, Manjery, Malapuram, Kerala-676122.

Sd/ V. S. Senthil, I.A.S Member Secretary (SEIAA)

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

To, Sri. V. Hashim, Partner, M/s Pullanchery Granite Industries, Pullanchery, P.O., Manjery, Malapuram-676122 Copy to:

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E& F Wing, II block, Koramangala, Bangalore-560034.

2. Additional Chief Secretary to Government, Environment Department.

3. The District Collector, Malappuram.

4. The Director, Mining and Geology Department, Kesavadasapuram, Thiruvananthapuram-4

5. The Secretary, Anakkayam Grama Panchayath Office, Anakkayam P.O., Ernad Taluk, Malappura, Kerala

6. Chairman, SEIAA

7. E.C File

8. Stock File 9. Website

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 100 m 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.
- 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.
- 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 not withstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license on consent given by any other authority for the same project.
- 55. This order is valid for a period of 5 years or the expiry date of mine lease period issued by the Government of Kerala, whichever is earlier.
- 56. The Environmental Clearance will be subject to the final order of the courts in any pending litigation related to the land or project, in any court of law.
- 57. The mining operation shall be restricted to above ground water table and it should not intersect ground water table.
- 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

CD. TEACH CONTROL

Administration of the Alebority

State Formanies and the Control

Thirtiestories of the Control

Photographs of the Control

