



Validity expires on 01.05.2022

Proceedings of the State Environment Impact Assessment Authority Kerala

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

Sub: SEIAA- Environmental clearance for the proposed quarry project in Sy.No. 1 (pt) at Mankada Village, Perithalmanna Taluk, Malappuram District, Kerala by Sri Hamza, M., Partner M/s Crown Sands & Gravels - EC granted – Orders issued.

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY, KERALA

No. 957/SEIAA/EC1/4399/2015

Dated, Thiruvananthapuram, 02.05.2017

- Ref:
1. Application dated 20-10-2015 from Sri Hamza, M., Partner, Crown Sands and Gravels, #3/134, Kadannamanna P. O., Mankada, Malappuram -679324
 2. Minutes of the 58th meeting of SEAC held on 28th & 29th June 2016
 3. Minutes of the 59th meeting of SEAC held on 11th & 12th July 2016
 4. Minutes of the 60th meeting of SEAC held on 28th & 29th July 2016
 5. Minutes of the 66th meeting of SEAC held on 19th December 2016.
 6. Minutes of the 64th meeting of SEIAA held on 23rd February 2017.

ENVIRONMENTAL CLEARANCE NO.30/2017

Sri Hamza, M., Partner, Crown Sands and Gravels, #3/134, Kadannamanna P. O., Mankada, Malappuram -679324, vide his application received on 20-10-2015, has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. No. 1 (pt) at Mankada Village & Panchayath, Perithalmanna Taluk, Malappuram District, Kerala. The project comes under Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dtd. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares. The proposed project site falls within (N) 11°02'48.8"- 11°02'59.0" & (E) 76°09'59.5"- 76°10'09.1". The lease area consists of 4.18 hectares, which is private land. The land use classification as per revenue records is private own land with local plantation. Rubber and coconut trees are the major crops of the vegetation. The present land use is dry land. The current proposal is for new quarry with lease. The proposed project is for quarrying of 1,29,015 MTA of building stone.

**BASIC INFORMATION OF QUARRY PROJECT
PART A**

I. Project details		
1.	File No.	957/SEIAA/EC/4399
2.	Name /Title of the project	Granite Building Stone Quarry of M/s

		Crown Sands and Gravels
3.	Name and address of project proponent.	#3/134, Kadannamanna P O, Mankada, Malappuram, Pin-679 32
4.	Owner of the land	Kuttyhassan, Suharabi & Maimoona
5.	Survey No. District/Taluk/ and Village etc.	Survey no 1 (pt) - Block No. 63 Village : Mankada Thaluk : Perinthalmanna District : Malappuram
6.	Nature of the proposal – lease or permit with evidence.	Mining Lease, copy of the intent letter is attached with EC file, the same can be produced up on request.
7.	Date of submission of Application	20/10/2015
8.	Brief description of the project.	Minor mineral, Granite Building Stone Quarry in an extent area of 4.1847 Ha with mining lease for 12, less 5 Ha, B2 category, semi-mechanized opencast mining method proposed.
9.	Details of Authorized Signatory and address for correspondence	Hamza M Partner of M/s Crown Sands and Gravels. Mangattu House, Ayanikkad, Chirayil P.O., Karippur, Pallikkal Village, Kondotti Thaluk, Malappuram, Kerala- 673 638
II. Land Details		
10.	a) Extent of area in hectares	4.1847 Ha
11.	b) Is the property forest land/Govt. land/own land/patta land	Private / Own Land
	c) Quantity of top soil/over burden produced and managed	211002 tons. top soil will be used for afforestation / green belt development. Over burden will be utilized for road formation and back filling of mined out area.
	d) Latitude and Longitude	(N) 11°02'48.8"- 11°02'59.0" (E) 76°09'59.5"- 76°10'09.1"
	e) Topography of land and elevation	Elevated Hilly terrain, highest elevation is 245 RL and lowest is 190 RL.
	f) Slope analysis	The individual bench slope shall be maintained to 80° whereas overall pit slope shall be 45°
	g) Will there be any significant land disturbance resulting in soil erosion, subsidence & natural drainage.	No
	h) Access road to the site width and condition	7 meter wide and will be well maintained during quarry operation
	i) Will there be any adverse impact on the aesthetics of the proposal site	Nil
III. Mining details		

	a) Minimum and Maximum height of excavation.	Individual Height of bench is Min 6m & Over all height of pit excavation is Max 50m
	b) Life of mine proposed.	12 years
	c) Underground mining if any proposed	No
	d) Method of Mining	Semi-mechanized opencast
	e) Distance from the adjacent quarry	500 mtrs
	f) Cluster condition if any	Nil
	g) Has "No cluster certificate" submitted?	500 m radius quarry certificate submitted
	h) Distance from nearby habitation	1200m Mr. Suresh residence
	i) Distance from nearby forest, if applicable	Nil, nothing in vicinity
	j) Distance from protected area, Wildlife Sanctuary, National Park etc.	Nil, nothing in vicinity
	k) Distance from nearby streams/rivers/National Highway and Roads	Kadalundipuzha 4.3 km Cherupuzha 6.23 km 2.5 km to Manjeri – Perithalmanna Road 48.5 km to Kozhikode – Kuttippuram NH
	l) Is ESA applicable? If so distance from ESA limit	N.A
	m) Has approved mining plan, prepared by RQP submitted?	Yes
	n) Capacity of production in TPA	129015 TPA
	o) Details of mining process	Semi-mechanized opencast mining method proposed, ie Drilling using jack hammers, controlled blasting using permitted explosives, Excavation & sizing using breakers & excavators.
IV. Details of Project cost		
	a) Land cost	030 lakhs
	b) Plant and Machinery	306 lakhs (incl. EMP & Insurance)
	c) Total Cost	336 laks
	V. Financial Statement including funding source and details of insurance etc.	Own fund & CSR amount is 7.15 lakhs
	Management Plan	Air Pollution
		Water sprinkling
		Water Pollution
		Nil
		Noise
		Not significant
		Solid Waste Management
		Nil
		Eco-restoration
		Re plantation of green species

VI.	Whether Environment Management Plan or Eco restoration Plan satisfactory?	Yes
VII.	Does it suggest mitigation measures for each activity	Yes
VIII.	If Pre-Feasibility Report (PFR) satisfactory	Yes
IX.	Does it need public hearing	No
X.	Details of litigation and Court verdict if any	Nil
XI.	Details of public complaint, if any	Nil
XII.	Details of statutory sanction required	Panchayat license will be availed after obtaining EC. Explosive license, Pollution control board etc.
XIII.	If CRZ recommendation applicable?	No
PART B		
Environment Impact Assessment and Mitigation Measures		
Impact on water		
a)	Details of water requirement per day in KLD	Green belt 2.5 KLD Dust suppression 7.00 KLD Domestic 0.5 KLD
b)	Water source/sources.	Bore well
c)	Expected water use per day in KLD.	10 KLD
d)	Details of water requirements met from water harvesting.	Mined out pits, ie Abundant pits will be used for rain water harvesting
e)	What are the impact of the proposal on the ground water?	Nil, no ground water is encountered during this mining
f)	How much of the water requirement can be met from the recycling of treated waste water? (Facilities for liquid waste treatment)	Nil, No recycling of treatment of waste water proposed since no significant waste water generated
g)	What is the incremental pollution load from waste water generated from the proposed activities?	Nil
h)	How is the storm water from within the site managed?	Garlanddrains, channels and bundswould beconstructed andmaintainedaroundtheboundaryofthemine lease area todirect rainwater away from the site. Water within the site will be collected in the pits and allowed to settle before runoff
Impact on Biodiversity and Eco restoration Programmes		
a)	Will the project involve extensive clearing or modification of vegetation	No

	(Provide details)	
b)	What are the measures proposed to minimize the likely impact on vegetation (details of proposal for tree plantation/ landscaping)	It is proposed to develop a green belt along the periphery of the mining lease area. The green species removed any during mining activity will be replanted outside the mining lease area
c)	Is there any displacement of fauna – both terrestrial and aquatic. – If so what are the mitigation measures ?	Nil
d)	Presence of any endangered species or red listed category (in detail)	
Impact on Air Environment		
a)	What are the mitigation measures on generation of dust, smoke and air quality	Dust suppression measures by water sprinkling. Periodic & Proper maintenance of vehicles and equipment.
b)	Details of internal traffic management of the site.	There will not be any heavy traffic inside the site since only around 450 tons of granite will be produced daily.
c)	Details of noise from traffic, machines and vibrator and mitigation measures	The noise & vibration impact from drilling would be hardly noticeable. Wet drilling & shape tools will be used to reduce the impacts
d)	Impact of DG sets and other equipments on noise and vibration and ambient air quality around the project site and mitigation measures	No DG used for quarrying operations. Not likely to have considerable impact due to this small scale quarrying. Measures like water sprinkling will be
e)	Air quality monitoring in detail	Periodic monitoring is proposed refer EC file
Energy Conservation		
a)	Details of power requirement and source of supply.	No electricity required or used only diesel operated machineries used
b)	Details of renewable energy (non – conventional) used.	Nil
Risk Management		
a)	Are there sufficient measures proposed for risk hazards in case of emergency such as accident at the site?	Yes
b)	Are proposals for fencing around the quarry satisfactory?	Yes, Explosive magazine will be available and used for storage of explosive, no solid waste generated and so no management proposed. Only solid waste generated is top soil & overburden generated and this will be used for afforestation, road formation, back filling etc.
c)	Storage of explosives/hazardous substance in detail	
d)	Facility for solid waste management	
Socio Economic Impacts		
a)	Will the project cause adverse effects on local communities disturbance to	No adverse effects on local communities.

	sacred sites or other cultural values. What are the safe guards proposed?	
	b) Will the proposal result in any changes to the demographic structure of local population. If so, provide details.	Nil
	c) Are the CSR proposals satisfactory? Give details	The proponent should spent an amount of Rs.6 lakh Non Recurring and Rs. 9.75 lakh Recurring towards CSR Activities in consultation with local body.
	d) What are the projects benefits in terms of employment potential?	12 person direct employment 25 person indirect employment
PART C		
	Details of NABET approved EIA Consultant engaged-Their name, address and accreditation details	Not applicable since B2 category
Summary and Conclusion		
	a) Overall justification for implementation of the project.	This project is environmentally compatible, financially viable and would be in the interest of construction industry thereby indirectly benefiting the public also.
	b) Explanation of how adverse impacts have been mitigated.	Since minor mineral quarry project under B2 category no significant pollutions or impacts However the proponent will take all precautions to control dust emissions, other pollutions during material handling, crushing and transportation.

2. The matter was placed in 58th meeting of SEAC held on 28th & 29th June 2016 and deferred the matter while considering the request letter dtd. 28.06.2016 seeking leave on that day. The proponent has submitted the approved mining plan as per KMMC Rules-2015. He also submitted the revised form 1 application to substantiate the Sy No. in the mining plan (Sy. No. 2 pt is excluded). 59th meeting of SEAC held on 11-12 July 2016 has considered the matter and noted that proponent and RQP were not present instead of managing partner without a power of Attorney. Hence the item was deferred. Notarized document to change the RQP was submitted to SEIAA.

3. The proposal was placed in the 60th meeting of SEAC, Kerala, held on 28th and 29th July, 2016. The committee appraised the proposal based on the Mining Plan, Pre-Feasibility Report and all other documents submitted along with the Form I application. The Committee asked the proponent to submit a Certificate from Village Officer certifying that the land is not assigned for any other purpose. The Committee deferred the item for field visit.

Accordingly, the Subcommittee of SEAC conducted the field visit. Field inspection report is given below.

Field visit to the site was carried out on 12 Nov 2016 by Dr. P.S. Harikumar and Dr Khaleel Chovva. The representatives of the proponent were present during the site inspection. The proposed project site falls within (N) 11°02'48.8"- 11°02'59.0" &(E) 76°09'59.5"- 76°10'09.1". The lease area consists of 4.18 hectares, which is private land. The current proposal is for new quarry with lease. Fencing has been provided to the lease area. The proponent has started the construction of a crusher unit near the quarry. Appropriate sign boards is displayed all around the site. The visiting team suggested the following.

Specific Conditions

1. Over burden should be stored in the designated places on the lower part and provided with protective support walls.
2. The approach road to the quarry was seen not properly maintained. Before the start of the quarrying, approach road should be constructed properly and maintained.
3. Some places the proponent has provided channels for collecting the drainage water. In other places also, the storm water drainage from the upper part must be channelized properly and let out through well-defined channels after clarification.
4. A detailed report on the site specific plant species should be done and the proponent should given an undertaking that all the important and endangered plants should be transplanted and conserved at a suitable location.
5. A separate small plot to be maintained in the premise to preserve rare and endemic species, if any, listed in the biodiversity assessment 100 m distance must be left from the dwelling units

In addition to the general conditions the above specific conditions needs to be complied with.

4. The proposal was placed in the 66th meeting of SEAC held on 19th December, 2016. The Committee appraised the proposal based on Form I, Pre-feasibility Report, Mining Plan, field inspection report of the Sub Committee and all other documents submitted with the proposal. The proponent shall set apart an area for transplanting and preserving any plant species occurring in the area endemic to Western Ghats. The Committee decided to Recommend for issuance of EC subject to the general conditions along with the following specific conditions.

1. *Over burden shall be stored in the designated places at the lower part and be provided with a protective support wall*
2. *Presently the approach road is in a bad shape. It shall be properly formed and maintained before the commencement of the operations.*

3. *Storm water shall be properly channelled and let out only after adequate clarification*
4. *If any plant species endemic to Western Ghats are noticed in the area they shall be properly protected in situ or by transplanting to an appropriate location inside the lease area.*
5. *The provision for CSR submitted by the proponent is inadequate. So a realistic CSR shall be submitted to SEAC.*

5. The proposal was considered by the Authority in its 64th meeting held on 23rd February 2017. The Authority decided to give Environmental Clearance after obtaining an adequate and realistic CSR and that 100 m distance must be left from the dwelling unit as suggested by the Inspection Committee Report. The proponent should submit an affidavit that the specific conditions have been fulfilled before EC is issued.

6. The proponent has submitted an affidavit stating that all the above conditions have been fulfilled. Environmental clearance as per the EIA notification 2006 is hereby accorded for the proposed Quarry project of Sri.Hamza, M., Partner, Crown Sands and Gravels, #3/134, Kadannamanna P. O., Mankada, Malappuram -679324 in Sy. No. 1 (pt) at Mankada Village & Panchayath, Perinthalmanna Taluk, Malappuram District, Kerala. for an area of 4.18 hectares, subject to the specific conditions as recommended by SEAC in Para 4 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, appended hereto will be applicable and have to be strictly adhered to.

7. 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 undertakings and conditions subject to all the mining features, Environmental Management Plans as undertaken in the Mining Plan and EMP submitted to SEIAA will be deemed to be part of this proceedings as conditions as undertaken by the proponent, as if incorporated herein.

8. 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.

9. 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, 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.
- iii. The given address for correspondence with the authorised signatory of the project is Sri.Hamza, M., Partner, Crown Sands and Gravels, #3/134, Kadannamanna P. O., Mankada, Malappuram -679324.

Sd/-

JAMES VARGHESE.I.A.S.,
Member Secretary (SEIAA)

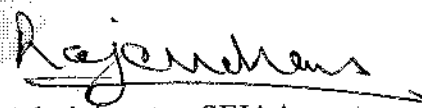
To,

Sri.Hamza, M., Partner,
Crown Sands and Gravels,
#3/134, Kadannamanna P. O.,
Mankada, Malappuram -679324

Copy to,

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E&F Wing, II Block, Koramangala, Bangalore-560034.
2. The Additional Chief Secretary to Government, Environment Department, Government of Kerala.
3. Director, Mining & Geology, Thiruvananthapuram -4.
4. District Collector, Malappuram
5. Secretary, Mankada Panchayat, Malappuram
6. Chairman, SEIAA.
- ✓ 7. Website.
8. S/f
9. 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 proponents 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 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.
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.



Rajeshwar

For Member Secretary, SEIAA Kerala

