



Validity expires on 30.03.2022

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. 279/5 at Kuthanur-I Village, Alathur Taluk, Palakkad District, Kerala by Sri. Tomy Joseph, M/s Immanuel Crushers & Mines Pvt.Ltd - EC granted – Orders issued.

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY, KERALA

No. 934/SEIAA/EC1/3911/2015

Dated, Thiruvananthapuram, 31.03.2017

- Ref:**
1. Application dated 26-09-2015 from Sri Tomy Joseph, M/s Immanuel Crushers & Mines Pvt. Ltd, No.34/316, Pipe Line Road, Padivattom, Edappally, Ernakulam – 682 024
 2. Minutes of the 57th meeting of SEAC, Kerala held on 16th and 17th June, 2016
 3. Minutes of the 60th meeting of SEAC, Kerala held on 28th & 29th July, 2016
 4. Minutes of the 60th meeting of SEIAA held on 27th October 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. 24/2017

Sri. Tomy Joseph, Director, M/s Immanuel Crushers & Mines Pvt. Ltd, No.34/316, Pipe Line Road, Padivattom, Edappally, Ernakulam – 682 024 vide his application received on 26-09-2015, has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. No. 279/5 (Block 10) at Kuthanur I Village, Kuthanur Panchayath, Alathur Taluk, Palakkad District, Kerala for an area of 4.92 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 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) 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 Latitude: N 10° 41' 50.61" to N 10° 41' 59.28" and Longitude: E 76° 31' 4.80" to E 76° 31' 10.42". The lease area consists of 4.92 hectares, which is private land. The land use classification as per revenue records is private own land

with rubber plantation. The current proposal is for the existing quarry with pit area of 4.92 hectares and mineral specific. Hence no alternate site was examined. The proposed project is for quarrying of 3,00,000 TPA of building stone.

Part A		
I. Project details		
1.	File No.	934/SEIAA/EC1/3911/2015
2.	Name /Title of the project	Building Stone Quarry
3.	Name and address of project proponent.	Tomy Joseph, Additional Director, Immanuel Crushers & Mines Pvt. Ltd. Chumbukad Post, Palakkad Dist. PIN: 678721
4.	Owner of the land	Nehemiah Builders & developers, Immanuel Crushers & Mines Pvt.Ltd., Ezra Traders, Dario Building Materials, Zion Granites.
5.	Survey No. District/Taluk/ and Village etc.	279/5, Palakkad District, Alathur Taluk,, Kuthanur i Village
6.	Nature of the proposal – lease or permit with evidence.	Lease Approval received from Department of Mining & Geology
7.	Date of submission of Application	26-09-2015
8.	Brief description of the project	Immanuel Crushers & Mines Pvt. Ltd., is a private limited company working on Crushers & Quarry's of Granite building stone. Now company is intending to do quarrying in large scale.
9.	Details of Authorized Signatory and address for correspondence	Tomy Joseph, Additional Director Immanuel Crushers & Mines Pvt. Ltd. Chembukad Post, Palakkad Dist. PIN: 678721.
II. Land Details		
10	a) Extent of area in hectares	4.92 Hec
11	b) Is the property forest land/Govt. land/own land/patta land	Own land
12	c) Quantity of top soil/over burden produced and managed	2,000 tons
13	d) Latitude and Longitude	Latitude: N 10 ⁰ 41' 50.61" to N 10 ⁰ 41' 59.28". Longitude: E 76 ⁰ 31' 4.80" to E 76 ⁰ 31' 10.42".
14	e) Topography of land and elevation	As per revenue record the land is private land.
15	f) Slope analysis	Terracing is always accompanied with plantation for stabilization of terraced slopes. It is always ensured that the average height of the dump does not exceed 10.0 m in each phase of dumping.
16	g) Will there be any significant land disturbance resulting in soil erosion, subsidence & natural drainage.	No
17	h) Access road to the site width and condition	7 Meter wide tarred road
18	i) Will there be any adverse impact on the aesthetics of the proposal site	No

III.Mining details			
19	a) Minimum and Maximum height of excavation.	Highest - 145 MSL	
20	b) Life of mine proposed.	7 years	
21	c) Underground mining if any proposed	No	
22	d) Method of Mining	Open cost with mechanized	
23	e) Distance from the adjacent quarry	Nil	
24	f) Cluster condition if any	Nil	
25	g) Has "No cluster certificate" submitted?	No	
26	h) Distance from nearby habitation	Kauthanur II is at a distance of 1.70 kms and Tarur – II which is 1.8 kms from the quarry.	
27	i) Distance from nearby forest, if applicable	Nil	
28	j) Distance from protected area, Wildlife Sanctuary, National Park etc.	Peacock Sanctuary at 6.0 km from the quarry site.	
29	k) Distance from nearby streams/rivers/National Highway and Roads	Gayatri River is at a distance of 3.8 km towards S of Quarry area.	
30	l) Is ESA applicable? If so distance from ESA limit	Nil	
31	m) Has approved mining plan, prepared by RQP submitted?	Yes	
32	n) Capacity of production in TPA	3,00,000 Tonnes per annum (max.)	
33	o) Details of mining process	The quarry is being worked with conventional open cast method with bench system and mode of operation will be mechanized. Based on the mode and method so adopted and taking into the consideration of geological parameters of the ore body the quarry pit is designed such that the height of the bench is kept about 5.00 mts max., and the width is also kept 5.00 mts, maintaining 45° pit slope.	
IV. Details of Project cost			
34	a) Land cost	00.25 Crore	
35	b) Plant and Machinery	12.00 Crore	
36	c) Total Cost	13.00 Crores (Includes construction cost)	
37	V. Financial Statement including funding source and details of insurance etc.,	Funding is done by L & T Finance and southern bank. Employee's insurance is covered by LIC.	
38	Management Plan	Air Pollution	Regular monitoring will be carried-out
		Water Pollution	Regular monitoring will be

			carried-our
		Noise	Regular monitoring will be carried-our
		Solid Waste Management	Will be stored and utilized for construction purpose.
		Eco-restoration	Quarry pit will be converted as a water pond.
39	VI. Whether Environment Management Plan or Eco restoration Plan satisfactory?	Yes, Rubber trees are planted all around and quarry pit is converted as a water pond.	
40	VII. Does it suggest mitigation measures for each activity	Yes, working quarry pit will be used for various activities such as water pond, back filling and etc., at the time of mine closure and it will not damage to the surrounding environment.	
41	VIII. If Pre-Feasibility Report (PFR) satisfactory	Yes, because in pre-feasibility report is covered all the mitigation measures of the proposed activity.	
42	IX. Does it need public hearing	No	
43	X. Details of litigation and Court verdict if any	Nil	
44	XI. Details of public complaint, if any	Nil	
45	XII. Details of statutory sanction required	Quarry Plan approved from Department of Mining & Geology, Kerala vide file no. DOP/2047/2015/A1 dated 07 th September 2015.	
46	XIII.If CRZ recommendation applicable?	No	
PART B			
Environment Impact Assessment and Mitigation Measures			
Impact on water			
47	a) Details of water requirement per day in KLD	2.0 KLD	
48	b) Water source/sources.	Bore well	
49	c) Expected water use per day in KLD.	2.0 KLD	
50	d) Details of water requirements met from water harvesting.	Water will be used for dust suppression and plantation purpose.	
51	e) What is the impact of the proposal on the ground water?	--	
52	f) How much of the water requirement can be met from the recycling of treated waste water? (Facilities for liquid waste treatment)	Nil. Domestic effluent will be generated and will be disposed off to septic and soak pit constructed as per CPCB norms. The discharge point would be to ground.	

53	g) What is the incremental pollution load from waste water generated from the proposed activities?	Nil, there is no incremental pollution load from waste water generated from the proposed activity.
54	h) How is the storm water from within the site managed?	Rain water within the quarry area will be collected at water pond, there is no chance for storm water. Also well protected wall constructed around the water pond.
Impact on Biodiversity and Eco restoration Programmes		
55	a) Will the project involve extensive clearing or modification of vegetation (Provide details)	Nil.
56	b) What are the measures proposed to minimize the likely impact on vegetation (details of proposal for tree plantation/ landscaping)	Systematic and scientific greening programme as per the Environmental Management Plan, considering ecology of the surrounding area.
57	c) Is there any displacement of fauna – both terrestrial and aquatic. – If so what are the mitigation measures? d) Presence of any endangered species or red listed category (in detail)	Nil
Impact on Air Environment		
58	a) What are the mitigation measures on generation of dust, smoke and air quality	<ul style="list-style-type: none"> ⊙ Wet drilling will be followed so that the dust emission to atmosphere is minimized, ⊙ Proper blasting pattern will be followed for effective rock fragmentation and generation of minimal fine dust to open atmosphere, ⊙ Water spraying arrangement on haul road and other critical locations, ⊙ Proper maintenance of transport vehicles including HEMMs so that their emission always within the RTO norms, ⊙ Approach road shall be maintained for its dust free movement of transport trucks, ⊙ Avenue plantation all along the approach road which will act as dust arrestors, ⊙ Shall ensure that the trucks are overloaded so that spillages on the public road is avoided, ⊙ Regular ambient air quality monitoring shall be carried out to ensure the air pollutants are kept under permissible limits always.
59	b) Details of internal traffic management of the site.	Haulage road made from quarry pit to main road to avoid internal traffic.
60	c) Details of noise from traffic, machines and vibrator and mitigation measures	<ul style="list-style-type: none"> ⊙ Personnel who are exposed to critical locations in the quarry will be provided with PPEs, ⊙ Fitness of all the transport and HEMMs will be ensured, ⊙ Acoustic enclosures will be provided for DG sets, ⊙ Corrective & preventive maintenance will be carried for all HEMMs so that they operate effectively,

		<ul style="list-style-type: none">● Effective blast design so that there will be minimal noise and ground vibrations during blasting,● Greenbelt will be developed, which will act as an acoustic barrier for noise transmission.																																																													
61	d) Impact of DG sets and other equipments on noise and vibration and ambient air quality around the project site and mitigation measures	<ul style="list-style-type: none">● Wet drilling will be followed so that the dust emission to atmosphere is minimized,● Proper blasting pattern will be followed for effective rock fragmentation and generation of minimal fine dust to open atmosphere,● Water spraying arrangement on haul road and other critical locations,● Proper maintenance of transport vehicles including HEMMs so that their emission always within the RTO norms,● Approach road shall be maintained for its dust free movement of transport trucks,● Avenue plantation all along the approach road which will act as dust arrestors,● Shall ensure that the trucks are overloaded so that spillages on the public road is avoided,● Regular ambient air quality monitoring shall be carried out to ensure the air pollutants are kept under permissible limits always.● Personnel who are exposed to critical locations in the quarry will be provided with PPEs,● Fitness of all the transport and HEMMs will be ensured,● Acoustic enclosures will be provided for DG sets,● Corrective & preventive maintenance will be carried for all HEMMs so that they operate effectively,● Effective blast design so that there will be minimal noise and ground vibrations during blasting,● Greenbelt will be developed, which will act as an acoustic barrier for noise transmission.																																																													
62	e) Air quality monitoring in detail	<table><tr><th>Location</th><th>Date of sampling</th><th>PM₁₀</th><th>PM_{2.5}</th><th>SO₂</th><th>NO_x</th></tr><tr><td rowspan="2">Quarry Area</td><td>02.09.14</td><td>43.8</td><td>17.5</td><td>10.4</td><td>12.9</td></tr><tr><td>03.09.14</td><td>39.9</td><td>16.1</td><td>11.5</td><td>12.3</td></tr><tr><td rowspan="2">Crushing Plant</td><td>02.09.14</td><td>39.7</td><td>15.8</td><td>11.7</td><td>14.9</td></tr><tr><td>03.09.14</td><td>38.2</td><td>15.2</td><td>12.5</td><td>11.3</td></tr><tr><td rowspan="2">Kuthanur – I (East)</td><td>02.09.14</td><td>37.3</td><td>14.9</td><td>11.0</td><td>13.6</td></tr><tr><td>03.09.14</td><td>35.2</td><td>14.0</td><td>11.1</td><td>14.1</td></tr><tr><td rowspan="2">Tarur - II Village</td><td>02.09.14</td><td>37.9</td><td>15.1</td><td>10.5</td><td>13.9</td></tr><tr><td>03.09.14</td><td>36.4</td><td>14.5</td><td>12.5</td><td>14.3</td></tr><tr><td rowspan="2">Kuthanur II</td><td>02.09.14</td><td>31.5</td><td>12.5</td><td>11.7</td><td>13.2</td></tr><tr><td>03.09.14</td><td>37.5</td><td>14.9</td><td>11.4</td><td>12.7</td></tr></table>	Location	Date of sampling	PM ₁₀	PM _{2.5}	SO ₂	NO _x	Quarry Area	02.09.14	43.8	17.5	10.4	12.9	03.09.14	39.9	16.1	11.5	12.3	Crushing Plant	02.09.14	39.7	15.8	11.7	14.9	03.09.14	38.2	15.2	12.5	11.3	Kuthanur – I (East)	02.09.14	37.3	14.9	11.0	13.6	03.09.14	35.2	14.0	11.1	14.1	Tarur - II Village	02.09.14	37.9	15.1	10.5	13.9	03.09.14	36.4	14.5	12.5	14.3	Kuthanur II	02.09.14	31.5	12.5	11.7	13.2	03.09.14	37.5	14.9	11.4	12.7
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Energy Conservation																																																															
63	a) Details of power requirement and	HSD is used for the Earth moving machineries on an average about 80 - 100 lts of HSD is required per day and the Power Source is required for crusher																																																													

	source of supply.	unit, workshops, office building and canteen. The required power supply of 700 KVA is demand through Kerala State Electricity Board. Apart from above a DG 2 Nos of 725 KVA each capacity is installed for backup / stand bye.				
64	b) Details of renewable energy (non – conventional) used.	Nil				
Risk Management						
65	a) Proposed risk management in case of emergency such as accident at the site?	No loose stones or debris will be allowed to remain near the edges of excavation and along the sites of haul road. Good safety practices will be adopted at the site. All precautionary measures will be adopted and use of personnel protective equipments will be mandatory. First aid measures at the site will be provided and also 24 hrs ambulance services will available at site.				
66	b) Security arrangements provided c) Storage of explosives/hazardous substance in detail d) Facility for solid waste management	b) Fencing around quarry is done. c) Permission taken from department of explosives/hazardous to storage of explosives/hazardous. d) About 1,03,000 tons of solid waste will be generated till the life of the quarry. And about 10,300 tonnes of waste is likely to generate every year. Part of the waste will be used for road development, filling and civil works and the balance will be dumped in the area earmarked for the purpose. During the post mine closure the entire waste will be backfilled in the workout pit. However the required protective measure will be taken up such as construction of rubble walls, trenches, garland drains, desilting and etc.				
Socio Economic Impacts						
67	a) If any adverse effects on local communities disturbance to sacred sites or other cultural values. What are the safe guards proposed?	Fencing around quarry is done.				
68	b) Will the proposal result in any changes to the demographic structure of local population. If so, provide details.	No				
69	c) Details of CSR undertakings	Sr. No	Description	Amount in INR	Remarks	
		1.	Extending the Medical checkups camps and facilities to the nearby villages Kuthanur, Tharur & Vengannur	60,000/yearx5=300,000/-	(Recurring)	
		2.	Extending the medical facilities to Cancer patients	1,00,000/yearx5=500,000/-	(Recurring)	

		3.	Providing building material / finance for construction of houses for needy people in and around the quarry	70,000/yearx5 =350,000/-	(Recurring)
		4.	Contribution for marriages to poor / needy people at least 15 - 20 people @ Rs. 25,000/- to 30,000/- each	5,00,000/-	(Non-recurring)
		5.	Contribution for local cultural and festivals	40,000/yearx5 =200,000/-	(Recurring)
		6.	Distribution of ration through panchayat to the needy people during Onam / Ramzan / Christmas festival at least 50 families @ Rs. 1,000/- per family each festival	150,000/-	(Non-recurring)
		7.	Construction of Bus shelter / bridges or repair of road in and around quarry.	1,00,000/year x 5=5,00,000	(Recurring)
		The proponent agreed to spend 25 lakhs expenditures towards community welfare activities for a period of next 5 years			
		Total		25,00,000/-	
70	d) Project benefits in terms of employment potential?	About 20 people get employment directly and around 100 people indirectly.			
PART C					
71	Details of NABET approved EIA Consultant engaged-Their name, address and accreditation details	METAMORPHOSIS SM Project Consultants Pvt. Ltd., Bengaluru, Karnataka, INDIA. QCI/NABET Accreditation serial No. NABET/EIA/1215/141			
Summary and Conclusion					
72	a) Overall justification for implementation of the project.	<ul style="list-style-type: none">There will be no environmental impact from the project since the scale of operation is very minimum.There will be no major environmental impact due to proposed ornamental stone quarrying. This operation doesn't need relocation of any habitats.			

		<ul style="list-style-type: none"> ⊗ The project provides employment opportunities to the people of surrounding area, in turn helps in improving the economic status of the present population. ⊗ Also there are many similar quarry operations working in the vicinity.
73	b) Mitigation measures on identified adverse impacts	<p>Systematic and scientific implementation the Environmental Management Plan, considering ecology of the surrounding area.</p> <p>Also have covered all the mitigation measures to control the activities.</p>

2. The proposal was considered in the 57th meeting of SEAC held on 16th and 17th June, 2016. Further to the intimation of SEAC, the proponent along with the RQP attended the meeting and the RQP made a brief power-point presentation of the salient features of the project. The committee appraised the proposal based on Form I, pre-feasibility report, mining plan. The quarry is in operational phase based on quarry permit. There could be possible violation for quarrying using this permit. The site is likely to be within 10kms of the Choolanoor Peacock Sanctuary. The Committee deferred the item for site inspection and for the proponent to produce the copy of the application preferred for wild life clearance from NBWL.

Field visit to the Quarry project site of *M/S Immanuel Crushers and Mines Pvt Ltd* at Kuthanur I Village, Alathur Taluk, Palakkad District, Kerala was carried out on 16.07.2016 by the sub-committee of SEAC Kerala, comprising Dr. E A Jayson and Sri. John Mathai. The Proponent Sri Tomy Joseph along with his team was present at the site at the time of site visit.

The project is located at about 6 km NNW of Alathur town with approach from Tarur side. The area in general is rocky with sparse vegetation. Narrow valleys with paddy and soil laden slopes with patches of rubber are seen. This quarry area falling in own land occupy the eastern slopes of a hill ridge exposing hard rock. The approach road to the quarry is solely used for this unit and is maintained. Boundary pillars of the plot are erected and numbered displaying GPS values. The rock type is variants of charnockite. The area is currently being worked with permits. In the worked out faces formation of benches, storm water management with water channelized into a central pit that functions as RWH structure, dust suppression mechanism etc are seen. The quarry has a crusher unit. Floral and faunal biodiversity is not observed as the area is mostly rocky. Adjacent areas mostly belong to this firm or its sister concerns. Dwelling units are not seen within 100 m. The Chulanur peafowl sanctuary is within 10 km of the quarry. Small plots of vested forest are seen close to the quarry but the legal status of such plots is still not clear. The proponent has already made application to NBWL. Based on an overall evaluation of the site, following conditions may be fulfilled before it is recommended for EC:

- *Map showing all lands in possession and the proposed quarry lease area within this land.*
- *The certificate that the land is not assigned for special purposes.*
- *Top soil and Over burden should be stored in a designated place on the lower slope away from the working area and provided with protective support walls.*
- *The water draining into the existing RWH will need further clarification before it is let out.*
- *Assurance that green belt will be provided around the periphery.*
- *Copy of the receipt of the application to NBWL*
- *The CSR activity needs revision addressing the needs of the locality.*

3. As the proponent has submitted the additional documents sought by the Committee the proposal was placed in the 60th meeting of SEAC held on 28th & 29th July 2016. The Committee after examining the mining plan, prefeasibility report, field inspection report and all other documents submitted, decided to Recommend for issuance of EC subject to the general conditions and the specific condition that the CSR activity needs revision addressing the needs of the locality. The proponent agreed to spend Rs. 25 lakhs expenditure towards community welfare activities for a period of next 5 years and also agreed to implement these schemes in consultation with the local body.

4. The proponent has submitted the revised CSR before SEIAA. The Authority considered the proposal in the 60th meeting held on 27th October 2016. "The Authority noted the remarks of the 57th meeting of SEAC held on 16th & 17th June 2016 that the quarry is in operational phase based on quarry permit and there could be possible violation for quarrying using this permit. The Authority decided to send the proposed file back to SEAC for recording the nature of violation".

5. The proposal was again placed in the 66th meeting of SEAC held on 19th December, 2016 and decided that though without E.C the proponent was working on the strength of a permit issued in 2016 for a period of one year. The argument that it was done on the strength of a permit issued by the state govt is a fact to be considered by the SEIAA while deciding the nature of action for violation.

6. The proposal was placed in the 64th meeting of SEIAA held on 23.02.2017. The Authority decided to issue Environmental Clearance subject to general conditions and the conditions suggested by SEAC in the field inspection report.

7. Environmental clearance as per the EIA notification 2006 is hereby accorded for the proposed Quarry project of Sri.Tomy Joseph, Director, M/s Immanuel Crushers & Mines Pvt. Ltd, No.34/316, Pipe Line Road, Padivattom, Edappally, Ernakulam – 682 024 in Survey No. in Sy. No. 279/5 at Kuthanur-I Village, Alathur Taluk, Palakkad District, Kerala for an area of 4.92 hectares, subject to the specific conditions as recommended by SEAC in para 2 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.

8. The clearance issued will also be subject to full and effective implementation of all the undertakings given in the application form, mitigation measures as assured in the Environment Management Plan and the mining features including progressive mine closure plan as submitted with the application and relied on for grant of this clearance. The above undertakings and the conditions and the undertakings in Chapter 2 (Mining), Chapter 2 (a) (Blasting), Chapter 3 (Mine Drainage), Chapter 4 (Stacking of Mineral Reject/Subgrade Material and disposal of waste) Chapter 8 (Progressive Mine Closure Plan) of the Mining Plan as submitted will be deemed to be part of this proceedings as conditions as undertaken by the proponent, as if incorporated herein.

9. 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.

10. 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, Palakkad 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.Tomy Joseph, Director, M/s Immanuel Crushers & Mines Pvt. Ltd, No.34/316, Pipe Line Road, Padivattom, Edappally, Ernakulam – 682 024

Sd/-
V.S.SENTHIL I.A.S.
Member Secretary (SEIAA)

To,

Sri.Tomy Joseph, Director,
M/s Immanuel Crushers & Mines Pvt. Ltd,
No.34/316, Pipe Line Road, Padivattom,
Edappally, Ernakulam – 682 024

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, Palakkad
5. Secretary, Kuthanur I Panchayat, Alathur, Palakkad
6. Chairman, SEIAA
7. Website
8. S/f
9. O/c



Forwarded/By Order

Rajendran

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.
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.



Rajendran

For Member Secretary, SEIAA Kerala

