

## Proceedings of the State Environment Impact Assessment Authority Kerala

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

Sub: SEIAA- Environmental Clearance for the proposed quarry project in Re.Survey Nos.174/1pt, 186/1, 186/1 pt, 190/1, 186/2, 187/pt, at Pulikkal Village, Kondotty Taluk, Malappuram District, Kerala by Mr. P.V. Ajesh - Granted - Orders issued.

### STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, KERALA

#### No. 1173/EC/SEIAA/KL/2017

Dated Thiruvananthapuram 17.03.2018

- Ref: 1. Application received on 16.01.2018 from Sri. P.V. Ajesh, Dwaraka House, Cheruppa (PO), Mayoor, Kozhikode 673661
  - 2. Minutes of the 84th meeting of SEAC held on 22nd & 23rd January, 2018
  - 3. Minutes of the 86th SEAC held on 27th February 2018.
  - 4. Minutes of the 81<sup>st</sup> meeting of SEIAA held on 08<sup>th</sup> March 2018.
  - 5. Affidavit dt. 16.03.2018 from Sri. P.V. Ajesh

### ENVIRONMENTAL CLEARANCE NO.50/2018

Sri. P.V. Ajesh, Dwaraka House, Cheruppa (PO), Mavoor, Kozhikode - 673661, vide his application received on 16.01.2018 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Re.survey Nos.174/1pt, 186/1, 186/1 pt, 190/1, 186/2, 187/pt, at Pulikkal Village, Kondotty Taluk, Malappuram District, Kerala for an area of 5.9168 Ha. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per Notification No.S.O.141 (E) dt.15.01.2016 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

## Details of the project as furnished by the applicant are as follows;

# BASIC INFORMATION OF QUARRY (To be filled in by the Project Proponent) PART A

PROJ	ECTDETAILS
	11 73/EC/SEIAA/KL/2018
Name /Title of the project	Stone Quarry of Mr.P.V Ajesh
	Mr. P.V Ajesh
Name and address of project proponent.	Dwaraka House, Cheruppa (PO) Masoor, Kerala-673
	661
	Land belongs to Muhammed Kutty, Mithammed, P.V
Owner of the land	Muhammedali, P.V Alavikutty, V Althaf, Ummer farooq
	who have given consent to Mr. P.V Ajesh
	Re.S. No174/1pt, 186/1, 186/1pt, 190/1, 186/2, 187/pt
Survey No. District/Taluk/ and Village	District-Malappuram
	Taluk-Kondotty
	Village-Pulikkal
	B
	Permit No-54/2016-17/GR/DOM/M-639/2016 -
	Date-9/9/2016
	Expiry date of permit-8/9/2017
to be attached)	
	Not Working
1 2000 0 380 1	01/01/2013
quarry project.	
	Not Working
or not?	100017
T. Prince Spain No. C. Santa Santa	8/9/2017
	06 Jan 2018
	Open cast Semi mechanized mining, B2
	Latitude (N)11 <sup>0</sup> 11'19.70" N to 11 <sup>0</sup> 11'29.20" N
GPS Ca-ordinate	T and the de/EN7505615 (ON E to 759 5 (110 OONE)
	Longitude(E)75°56'5.60" E to 75° 56'19.00"E
Details of Authorized Signatory and	Mr. P.V Ajesh
	Dwaraka House, Cheruppa (PO) Mayoor, Kerala-673
address for correspondence	661
	001
LA	AND DETAILS
Extent of area in hectares	5.9168 Ha
Is the property forest land/Govt. land/own	own land
land/patta land	
Quantity of top soil/over burden produced	40330 Tones. The top soil is used for plantation purpose
and managed	
	11°1 1'19.70" N to 1 1°11'29.20" N
Latitude and Longitude	75°56'5.60" E to 75° 56'19.00"E
Tono avanhar of land and followstion	The topography of the lease area is hilly. The highest
Topography of land and elevation	elevation of the lease area is 195m MSL and lowest is

	25 % 40T			
	55m MSI.,			
Slope analysis	Considering the stability of rocks, ultimate pit slope proposed is 450			
Will there be any significant land	Nil			
disturbance resulting in soil erosion,				
subsidence & natural drainage.				
Access road to the site width and condition	7m concrete road			
Will there be any adverse impact on the aesthetics of the proposal site	No			
	NING DETAILS			
Minimum and Maximum height of	Highest 195 m above MSL			
excavation.	Lowest 55 m above MSL			
Life of mine proposed.	10 Years			
Underground mining if any proposed	Not applicable			
Method of Mining	Open cast mining			
Distance from the adjacent quarry	150m			
Cluster condition if any	No was a second			
Has "No cluster certificate" submitted?	Yes			
	168m			
Distance from nearby habitation	25. 0. 1920/05/2019/05/2019			
Distance from nearby forest, if applicable	No forest land within 500m radius from the mine site.			
Distance from protected area, Wildlife	No protected area, Wildlife Sanctuary, National Park			
Sanctuary, National Park etc.	with in 15 km radius from the mine site			
Distance from nearby	Chaliyar-15Km			
streams/rivers/National Highway and				
Roads				
Is ESA applicable? If so distance from ESA limit	Not applicable			
Has approved mining plan, prepared by RQP submitted?	Yes			
Capacity of production in TPA	2,25,360 Tones			
	The quarry is proposed to work with conventional open			
	cast with bench system method with semi - mechanized			
	mode of operation. Based on the mode and method,			
Details of mining process	taking into the consideration of geological parameters of			
	the charnockite body, the quarry pit will be so designed			
	such that the height of the bench is kept about 5.00 m			
	max			
DETAIL	S OF PROJECT COST			
Land cost	35,0000			
Plant and Machinery	55,0000			
Total Cost	90,0000			
Financial Statement including funding	70,000			
sourceand details of insurance etc.	Own fund and Bank Loan			
Sourceard details of Histrance etc.	Air Pollution   No significant air pollution is			
	expected as the mining operation is			
	in wet stage. However during the			
Environment Management Plan	summer water spraying suppresses			
3	the dust on roadways. The			
	improvement of haulage road is			
	themain remedy to suppress dust			
**	during transportation. Water			

sprinklers are provided to check the dusty road in the mining area.  Dust released due to mining activity will be suppressed periodically by sprinkling of water, by engaging water tankers.  Water Pollution  Garland drains are provided at the mine site to regulate monsoon water and direct the same to the settling ponds / mine pit to contain the mine wash off and to avoid the same joining the adjoining surface water bodies / water courses.			
Dust released due to mining activit  Will be suppressed periodically by sprinkling of water, by engaging water tankers.  Water Garland drains are provided at the mine site to regulate monsoon water and direct the same to the settling ponds / mine pit to contain the mine wash off and to avoid the same joining the adjoining surface water bodies / water courses.			
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sprinkling of water, by engaging water tankers.  Water Garland drains are provided at the pollution mine site to regulate monsoon water and direct the same to the settling ponds / mine pit to contain the mine wash off and to avoid the same joining the adjoining surface water bodies / water courses.			
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ponds / mine pit to contain the mine wash off and to avoid the same joining the adjoining surface water bodies / water courses.			
wash off and to avoid the same joining the adjoining surface water bodies / water courses.			
joining the adjoining surface water bodies / water courses.			
bodies / water courses.	]		
	:		
Noise Plantation will be carried out all	.		
along the lease periphery, which ac	ş		
as acoustic barrier for noise	" · [ ]		
transmission.			
Solid Waste Solid waste will be stacked at	$\neg$		
Management designated places during the quarry			
operations and will be utilized for			
reclamation work during mine			
closure plan.			
Eco- Green belt will be developed aroun	<u>,                                    </u>		
	¹		
restoration the mine lease boundary, around			
mine office, haul road, etc to restor	'		
the ecology and aesthetics of the			
mine site.			
Whether Environment Management Plan Yes			
or Eco restoration Plan satisfactory?			
Does it suggest matigation Yes			
measures for			
each activity			
Is Pre-Feasibility Report (PFR) Yes			
salisfactory			
Does it need public hearing No			
Details of litigation and Court verdict if Not Applicable			
Details of public complaint, if any No			
Details of statutory sanction required Not Applicable			
If CRZ recommendation applicable? Not Applicable			
PART B			
ENVIRONMENT IMPACT ASSESSMENT AND MITIGATION MEASURES	!		
The total water requirement for mining.			
	operation is about 7 KLD comprising		
1 KLD for Domestic & sanitary needs and			
1 Datatic of Wester requirement non devite			
Details of water requirement per day in 6 KID for Dust suppression, plantation etc.	The domestic water needs are met from the		
Details of water requirement per day in 6 KLD for Dust suppression, plantation etc.			
KLD 6 KLD for Dust suppression, plantation etc.  The domestic water needs are met from the			
KLD 6 KLD for Dust suppression, plantation etc.  The domestic water needs are met from the bore well and the industrial water is met from			
KLD  6 KLD for Dust suppression, plantation etc.  The domestic water needs are met from the bore well and the industrial water is met from the mine sump of the existing quarry.			
6 KLD for Dust suppression, plantation etc. The domestic water needs are met from the bore well and the industrial water is met from the mine sump of the existing quarry.  Water source/courses  The required water will be met from open well within			
Water source/sources.  6 KLD for Dust suppression, plantation etc. The domestic water needs are met from the bore well and the industrial water is met from the mine sump of the existing quarry.  The required water will be met from open well within the area and also from water pond.	L		
KLD for Dust suppression, plantation etc.  The domestic water needs are met from the bore well and the industrial water is met from the mine sump of the existing quarry.  Water source/courses  The required water will be met from open well within	ì		

	· · · · · · · · · · · · · · · · · · ·	
ſ		1 KLD for Domestic & sanitary needs and
1		6 KLD for Dust Suppression, plantation etc.
1	a tara a galaria	The domestic water needs are met from the
-	maga, isan yangan com, ann yan misanda da da gan anan angan angan angan da gan da gan da gan da gan angan angan angan angan angan da gan angan angan angan angan da gan angan angan angan da gan angan	bore well and the industrial water is met from
	<u>.</u>	the rmine sump of the existing quarry.
Ī	Details of water requirements met from	Around 6 KLD is required for dust suppression will be
.	water harvesting.	met from water harvesting pond
İ		The ground water level measured from the nearest well
1		is about 17 m below the ground level. The ultimate
1	What are the impact of the proposal on the	depth of the working of the quarry is 80m MSL. Since
	ground water?	the working is much above the general ground water
١		table, it does not affect the ground water
ł	How much of the water requirement can	Not Applicable
	be met from the recycling of treated waste	
-	water? (Facilities for liquid waste	
	treatment)	
	What is the incremental pollution load	Not Applicable
ļ	from waste water generated from the	· · · · · · · · · · · · · · · · · · ·
	proposed activities?	
	proposed activities.	• Storm water drains with silt traps will be
		suitably constructed all along the periphery of
		the pit area (Garland drains) to collect the run-
		off from the lease area and divert into the storm
	**	V641 +1907 SH196616
	How is the storm water from within the	water pond/tanks proposed within the complex.
	site managed?	Appropriate channelization of storm water with
٠.		channels of sufficient width.
		All measures will be taken not to disturb the
		existing drainage pattern adjacent to the other
		property.
	IMPACT ON BIODIVERSITY A	AND ECO RESTORATION PROGRAMMES
		There will not be any loss of native species of genetic
	Will the project involve extensive clearing	diversity as the quarry already exists and continuation of
	or modification of vegetation (Provide	the same will not affect or loss of native species in
	details)	general.
		•
		It is proposed to develop green belt to about 80 % which
		includes areas like along mine lease boundary (7.5 m
	What are the measures proposed to	width), all along the periphery of the mine lease area
	minimize the likely impact on vegetation	and the reclaimed area. Grass and bushes will be planted
	(details of proposal for tree plantation/	in areas prone to erosion especially at the foot of the
	landscaping)	mine lease area. Other areas will be fertilized and
		planted with local species. The characteristics of this
		vegetation will resemble that of the natural environment.
	Is there any displacement of fauna - both	This region does not have any endemic or endangered
	terrestrial and aquatic If so what are the	species, so any development activity in the region does
	mitigation measures?	not have any direct bearing or significant influences in
	Presence of any endangered species or red	the ecosystem stability or biodiversity
	listed category (in detail)	
		N AIR ENVIRONMENT
	Time to	Laying of haul road as per the standards, black
	What are the mitigation measures on	topping of permanent haul road and service
		road to avoid or eliminate air – borne dust.
	generation of dust, smoke and air quality	¥
		• To avoid the dust generation from the drilling

	and the control of th
	operations, wet drilling method will be adopted.
- Win skipali saya pikhindi ing apaka ngahindi dipindin spinga afin	• Drill machines will be equipped with dust
	collectors.  Use of appropriate explosives for blasting and avoiding overcharging of blast holes.
	In case of long transportation the trucks after
Details of internal traffic management of	<ul> <li>loading will be covered with tarpaulin sheets.</li> <li>Speed of the vehicles will be maintained within</li> </ul>
the site.	the prescribed limits.
	Trucks will not be over loaded and will be
	maintained to the body level.
	<ul> <li>Proper maintenance of machinery, equipment's and improvement on design of machines.</li> </ul>
Details of noise from traffic, machines and	• Use of personal protective devices i.e., earmuffs
vibrator and mitigation measures	and earplugs by workers, who are working in
	high noise generating areas.
	• Creation of wide green belt of dense foliage between mine areas and residential colonies
	Laying of had road as per the standards, black
	topping of permanent hand road and service road
	to avoid or eliminate air – borne dust. 👢
Impact of DG sets and other equipments	• To avoid the dust generation from the drilling
on noise and vibration and ambient air	operations, wet drilling method will be adopted.
quality around the project site and mitigation measures	Drill machines will be equipped with dust collectors.
intigation measures	• Use of appropriate explosives for blasting and
	avoiding overcharging of blast holes.
	Controlled blasting techniques will be adopted.
Air quality monitoring at detail	Air quality is monitored from four different corners of
	the project site and results are found within the limits.  Y. CONSERVATION
	No electric Power required for Quarry operation.
of supply.	110 cloude rower required for Quarry operation.
Details of renewable energy (non – conventional) used	Not Applicable
	MANAGEMENT
Are there sufficient measures proposed for	Yes
risk hazards in case of emergency such as accident at the site?	
Are proposals for fencing around the	Yes .
quarry satisfactory?	
Storage of explosives/hazardous substance in detail	
Facility for solid waste management	•
	CONOMIC IMPACTS
Will the project cause adverse effects on	Nil
local communities disturbance to sacred	- 141
sites or other cultural values. What are the	·
safe guards proposed?  Will the proposal result in any changes to	Nil
Trim are proposed result it any origing to	1 * 1.4.4

	<u> </u>	<u> </u>	<u> </u>	معجب عصمتها وارداد ليك فيسايه بيعطيهم والقائدات
the demographic structure of local population. If so, provide details.				
	   <del></del> -			
ر مورد در به ۱۱۰ در	CSR Activities proposed to be carried out			
	S1.No	Particulars	Amount in R	
			Recurring	Non
		<u> </u>		recurring
	1	Promotion of	1,00,000	1,50,000
Details of CSR commitment		Education		
Double of College College	2	Environment	25,000	70,000
	\ <u></u>	Sustainability	· ·	
	3	Health care	2,50,000	
	4	Social Aspects		8,00,000
		Sub Total	4,25,000 <b>X</b> 5	10,20,000
	· · · ·		=21,25,000	
	<u> </u>	Total	31,45,000	
What are the projects benefits in terms of		arrying activity w		
employment potential?		and in-directly.		
		temployed in C	quar <b>ry</b> as skille	ed and unskilled
	worker	23		<u>-</u>
D 4-2 CNADET 4 DIA	PART	hamed K.V		·
Details of NABET approved EIA				
Consultant engaged-Their name, address and accreditation details	DMG/KERALA/RQP/7/2016 Karuveetil House, Veliancode PO, Malappuram, Kera			murom* Karala
		CONCLUSION	ucoste PO, Iviaia	ppuram, Keraia
SUMMERS	·	edicted that soci	o economic im	pact due to this
		will positiv		prosperity and
				. 1 "
A STATE OF THE STA	improvements in physical and social infrastructure area. It will increase the chance of more employm local people. There is no resettlement rehabilitation involved in this project. Revenue			
Overall justification for implementation of	state government and central government increased through collection of various taxes. T			
the project.	project	area is devoid	of any endan	gered flora and
	fauna.	It is proposed to	reclaim the land	d to a maximum
	possible extent by providing green belt in refilling a			in refilling and
	surroui	nding areas. In ad	ldition to this	10% of the total
		converted to w		
		is not likely to af	fect the environ	ment or adjacent
	ecosys			
	Advers			_ <del>_</del>
	•	All working place		
•	access, safe working platform and exit. Per			
		working in hazar	-	e area will be
		provided with d		121
Explanation of how adverse impact have	9	_		like respirators,
been mitigated.		ear plug, noise n		. Will be
		provided to the		.
·		Proper unit design		~
				ing by control of
		process and fugi		
. 70	•		ement of drinki	ng water will be
		madel.		

			· ·		
<del></del>	registerente WYG.		t integral of the control of the con	•	Education & training will be provided to the workforce about facilities, protective equipment, risk associated, potential health
and the second s	and the second s	age y ye	бат шиска д кайтобрало «ада д дай д дай д дай дай дай дай дай да		effects, etc. Display board will be provided showing the hazards associated and recommend precautionary measures.

2. The proposal was placed in the 84<sup>th</sup> meeting of SEAC held on 22<sup>nd</sup> & 23<sup>rd</sup> January, 2018 and decided to defer the item for field inspection.

Accordingly site visit to the quarry was carried out on 13 Feb 2018 by Dr P S Harikumar and Dr Khaleel Chovva and reported that the proponent was present at the site. The proposed project site falls within Latitude 11°11'19.70"N to 11°11'2920"N to Longitude 76°08'18.57"E to 76°08'30.84"E. The lease area consists of 5.9168 hectares, which is a private own land. The proposed project is for quarrying of 2,25,360 tonnes/ Annum. There is no any human settlement within 100 m of the quarry area. The total water requirement for the proposed project is around 7 KLD. The required water to be met from bore well & open well. The topography of the lease area is hilly. They have not provided any drainage to collect the storm water. Pillar stones are provided and fencing seen at some places. The quarry was operating previously without any bench formation. The overburden and top soil is deposited haphazardly at the site.

#### Recommendation

Drains should be provided at the site and the water should be desilted and clarified before discharge

The top soil and overburden should be deposited at a designated place at lower elevation inside the project area

Fencing should be provided around the quarry area.

The quarry should be operated only through bench formation

Any plant species endemic to Western Ghats are available shall be protected in situ or transplanted to an appropriate place

It is recommended to give EC for the application after implementing the above mentioned conditions and stipulating general conditions for a quarry project

- 3. The proposal was placed in the 86th SEAC held on 27th February 2018. 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 Committee decided to Recommend for issuance of EC subject to general conditions and the following Specific Condition.
- 1. If any rare, endemic and threatened plant species are noticed, they shall be properly protected insitu or transplanted to a suitable site inside the lease area.

SEIAA may persuade the proponent to contribute appropriate amount for the community welfare activities of the local community.

- 4. The proposal was placed in the 81<sup>st</sup> meeting of SEIAA held on 08<sup>th</sup> March 2018. Authority accepted the recommendation of SEAC and decided to issue EC subject to general conditions in addition to the above specific condition as suggested by SEAC and the inspection team. The inspection team recorded that the EC can be given after implementing the conditions suggested by them. The proponent should set apart Rs. 12 lakh per annum (recurring) for community welfare activities. The CSR amount should be included in the annual account of the company and the expenditure statement should be submitted to SEIAA along with the compliance report after getting certified by a Chartered Accountant. A notarised affidavit for the commitment of CSR activities and also agreeing all the general and specific conditions should be submitted before the issuance of EC. The proponent has submitted an affidavit vide reference 5<sup>th</sup> cited.
  - Environmental Clearance as per the EIA Notification 2006 is hereby accorded for the quarry project of Sri P.V. Ajesh, Dwaraka House, Cheruppa (PO), Mavoor, Kozhikkode 673661 in Resurvey Nos.174/1pt, 186/1, 186/1 pt, 190/1, 186/2, 187/pt, at Pulikkal Village, Kondotty Taluk, Malappuram District, Kerala for an area of 5.9168 Ha, subject to the specific conditions as in para 3 & 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 (items 1 to 61), appended hereto will be applicable and have to be strictly adhered to.

- 6. 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 4 (Mining), Chapter 5 (Blasting), Chapter 6 (Mines Drainage), Chapter 7 (Stacking of Mineral rejects and Disposal of waste) Chapter 11 (EMP) Chapter 12 (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.
- 7. 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.
- 8. 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.
  - 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.
- iii. The given address for correspondence with the authorised signatory of the project is Sri. P.V. Ajesh, Dwaraka House, Cheruppa (PO), Mavoor, Kerala-673661.

Sd/-P.H.KURIAN I.A.S, Member Secretary (SEIAA)

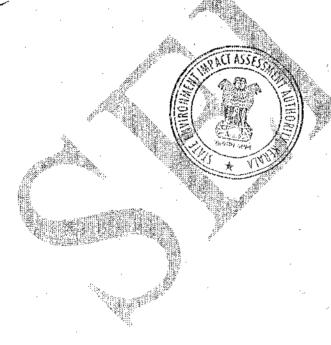
To,

Sri. P.V. Ajesh, Dwaraka House, Cheruppa (PO), Mayoor, Ketala-673661

- 1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4<sup>th</sup> Floor, E&F Wing, II Block, Koramangala, Bangalore-560034.
- 2. The Additional Chief Secretary to Government, Environment Department, Government of Kerala.
- 3. District Collector, Malappuram
- 4. Director, Mining & Geology, Thiruvananthapuram -4.
- 5. The Member Secretary, Kerala State Pollution Control Board
- 6. District Geologist, Malappuram
- 7. Tahsildhar, Kondotty Taluk, Malappuram district
- 8. Chairman, SEIAA.
- . Website.
- 10. S/f
- 11. O/c

Forwarded/By Order

Administrator, SEIAA



## STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITYKERALA

## 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.
- 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 hall 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.
- 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 points 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 grains shall be regularly desilted particularly after mensoon 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 PM<sub>10</sub> and PM<sub>25</sub> 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.
- 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 thisimplementation 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.
- 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.
- 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