



Validity expires on 20/11/2022

***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 quarry project in Sy. No. 4(P) at Eruvessi Village, Eruvessi Panchayath, Thaliparambu Taluk, Kannur District, Kerala for an area of 4.90 hectares. - EC granted – Orders issued.

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**STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY, KERALA**

**No. 709/SEIAA/KL/ 5786/2014**

***Dated, Thiruvananthapuram 21/11/2017***

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- Ref:
1. Application dated 7/11/2014 from K.C.James Managing Partner of M/s. Everest Stone Crusher and Granites MT-89-V, Highway Arcade, Thana, Kannur-670002.
  2. Minutes of the 59<sup>th</sup> meeting of SEAC, Kerala, held on 11<sup>th</sup> and 12<sup>th</sup> July 2016.
  3. Minutes of the 69<sup>th</sup> meeting of SEAC held on 9<sup>th</sup> & 10<sup>th</sup> April 2017
  4. Minutes of the 74<sup>th</sup> meeting of SEAC held on 14<sup>th</sup> & 15<sup>th</sup> June 2017.
  5. Minutes of the 72<sup>nd</sup> meeting of SEIAA held on 1<sup>st</sup> August 2017.
  6. Affidavit received on 3/10/2017 from K.C.James, Managing Partner of M/s Everest Stone Crusher Granites, Iritty Taluk, Kannur.

**ENVIRONMENTAL CLEARANCE NO. 83/2017**

Sri. K.C. James, Managing Partner, M/s Everest stone & Granites, MT-89-V-Highway Arcade, Kannur, Kerala – 670002, vide his application received on 04/12/2014, has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. No. 4 (P) at Eruvessi Village, Eruvessi Panchayath, Thaliparambu Taluk, Kannur District, Kerala for an area of 4.90 hectares. The project comes under Category B2, 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 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. The project comes under 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**

<b>Project details</b>		
1	File No.	709/SEIAA/KL/5786/2014
2	Name /Title of the project	Granite Building Stone Quarry of M/s. Everest Stone Crusher & Granites
3	Name and address of project proponent.	Sri. K.C. James, Managing Partner, M/s. Everest Stone Crusher and Granites, TAT-89-V, Highway Arcade, Thana, Kannur, Kerala – 670002. E-mail: reenairitty@rediffmail.com Phone No: 0497- 2701728, Mobile No : 09447026559
4	Owner of the land	Patta Land owned by M/s. Everest Stone Crusher & Granites
5	Survey No. District/Taluk/ and Village etc.	Survey no's. 4 (P) Eruvessi village, Taliparamba Taluk, Kannur District, Kerala
6	Details of period of lease or permit with number including the beginning and expiry date of lease/permit period(Copy to be attached)	Valid from 16.01.2016 till 15.01. 2017 (copy attached as Enclosure – 1)
7	Present Status of the project a. Date & Year of starting the work of the quarry	a. 12.02.2013

	<p>project.</p> <p>b. whether the quarry is working at present or not ?</p> <p>c. If stopped working since when?</p>	<p>b. No.</p> <p>c. 12. 04.2016</p>
8	Date of submission of Application	04.12.2014
9	Brief description of the project.	Enclosed as <b>Annexure – I</b>
10	Details of Authorized Signatory and address for correspondence	<p>Sri. K.C. James, Managing Partner, M/s. Everest Stone Crusher and Granites, MT-89-V, Highway Arcade, Thana, Kannur, Kerala – 670002. E-mail: reenairitty@rediffmail.com Phone No: 0497-2701728, Mobile No : 09447026559</p>
<b>Land Details</b>		
11	Extent of area in hectares	4.90 Ha
12	Is the property forest land/Govt. land/own land/patta land	Patta Land owned by M/s. Everest Stone Crusher & Granites
13	Quantity of top soil/over burden produced and managed	top soil - 7600 m <sup>3</sup> , over burden - 68670 m <sup>3</sup> , Total - 76270 m <sup>3</sup>
14	Latitude and Longitude	<p>latitude - 12°07'23.2" N to 12°07'35.5" N</p> <p>Longitude from 75°34'28.1" E to 75°34'36.7" E</p>
15	Topography of land and elevation	+345m AMSL to +450 m AMSL sloping from North East to South West
16	Slope analysis	
17	Will there be any significant land disturbance resulting in soil erosion, subsidence & natural drainage.	This being an opencast mine there will not be any subsidence. The bench slopes will be maintained as per DGMS rules and requirement and hence there cannot be any instable slopes.

18	Access road to the site width and condition	The project is approachable from the pucca road and it is about 8 m wide. The project site is approachable through Chemberi – ValiyaAreekamala road which is branching out from Chemberi – Cheriya Areekamala road.
19	Will there be any adverse impact on the aesthetics of the proposal site	No. During the mine closure stage, the entire mined out area of 4.1988 Ha will be reclaimed back with bench plantation / plantation which improves the aesthetics of the area.
<b>Mining details</b>		
20	Minimum and Maximum height of excavation.	+345m AMSL to +450 m AMSL sloping from North East to South West. The ultimate depth of mining will be up to 340 RL.
21	Life of mine proposed.	5 years (The life of mine may increase in case of not achieving the targeted production during the plan period)
22	Underground mining if any proposed	Not applicable
23	Method of Mining	Semi-Mechanized opencast mining
24	Distance from the adjacent quarry	There are no quarries within the 500m radius
25	Cluster condition if any	
26	Has "No cluster certificate" submitted?	Yes
27	Distance from nearby habitation	More than 101 m away
28	Distance from nearby forest, if applicable	PadinalknadGhat RF– 3.2 km – NE (Aerial), Kanjirakolli VF – 3.7km – NE Kunnattur VF – 5.9km – SE and Karamaramtitta VF – 4.2km - NW are found in the study area.
29	Distance from protected area, Wildlife Sanctuary, National Park etc.	Brahmagiri wildlife sanctuary – 9km-NE
30	Distance from nearby streams/rivers/National Highway and Roads	There are no streams or water bodies in the ML area. The nearest major water body is located EruvessiTodu – 7.0 km - S (Aerial)

31	Is ESA applicable? If so distance from ESA limit	The project area does not fall in ESZ – I of WGEEP Report and ESA of HLWG.
32	Has approved mining plan, prepared by RQP submitted?	Yes
33	Capacity of production in TPA	1000TPD
34	Details of mining process	The mining operation comprises of drilling using jack hammer and compressors, blasting, removal of blasted material using excavator and transportation of material directly to own crusher unit located outside the lease area.
<b>Details of Project cost</b>		
35	Land cost	66.55 lakhs
36	Plant and Machinery	1.99 lakhs
37	Total Cost	Total – 2.8 crores
38	Financial statement including funding source and details of insurance etc.	Funded partly by partners, partly by loans
39	Management Plan	<b>Air Pollution</b>
		<b>MANAGEMENT PLAN:</b> <ul style="list-style-type: none"> <li>➤ Covering of drill holes with wet cloth for controlling dust emission</li> <li>➤ Regular wetting of transport road using water tanker for dust suppression</li> <li>➤ Avoiding overloading of tippers &amp; covering of loaded tippers with tarpaulins during transportation</li> <li>➤ Development of green belt / barriers wherever possible.</li> </ul>
39	Management Plan	<b>Water Pollution</b> <ul style="list-style-type: none"> <li>➤ Sewage generated will be properly discharged into septic tanks with soak pits.</li> <li>➤ It is suggested to construct a retaining wall on the southern side of the lease and also a garland drain for collection of rain water at the bottom.</li> <li>➤ Silted water if any will be collected</li> </ul>

			<p>in the garland drain which in turn will flow into settling pond. Supernatant clear water will be let out of the area after passing through silt traps.</p>
		Noise	<ul style="list-style-type: none"> <li>➤ Noise levels can be abated through good preventive maintenance of machineries, green belt creation, provision of ear muffs to workers, etc.,</li> <li>➤ Sound proof operator's cabin for equipment like dumpers, shovel, tippers, etc.,</li> <li>➤ Ground vibration are controlled through optimum design for burden &amp; spacing, inclined drilling practice, using ordinary electric milli second delay detonators, in combination with detonating fuse etc.,</li> </ul>
		Solid waste Management	<ul style="list-style-type: none"> <li>➤ A small portion of a land in the middle of the lease area is already mined. The total quantity of waste to be generated from the lease area is 76270 m<sup>3</sup> comprising 7600 m<sup>3</sup> of top soil and 68670 m<sup>3</sup> of over burden.</li> <li>➤ The top soil will be used for reclamation purpose. Some part of the waste material will be used for</li> </ul>
			road formation and filling of the ground and the remaining waste will be used for filling of mined out void.
		Eco restoration	<ul style="list-style-type: none"> <li>➤ In the mine closure stage, the waste generated in the northern part can be utilized for backfilling the mined out void on the southern side up to the level of +360m AMSL (0.6356 Ha) and after backfilling the original ground profile can be maintained and the entire mined out area of 4.1988 Ha will be reclaimed back with bench plantation / plantation. The mined area will be properly fenced all around.</li> </ul>
40	Whether Environment Management Plan or Eco restoration Plan	Yes	

	satisfactory?	
41	Does it suggest mitigation measures for each activity	Yes
42	If Pre-Feasibility Report (PFR) satisfactory	Yes
43	Does it need public hearing	No
44	Details of litigation and Court verdict if any	Yes. Attached along as pdf.
45	Details of public complaint, if any	No
46	Details of statutory sanction required	Environmental clearance yet to be obtained. Applied on 04.08.2014.
47	<b>XIII.If CRZ recommendation applicable?</b>	Not applicable

#### **PART B**

### **Environment Impact Assessment and Mitigation Measures**

#### **Impact on water**

48	Details of water requirement per day in KLD	<p>The water requirement for the mining operation is as follows:</p> <p>For domestic &amp; sanitary needs - 2.0 KLD</p> <p>For dust suppression and Plantation etc., - 9.0 KLD</p> <p>Total - 11.0 KLD</p> <p>The entire water requirement is being met from well and tube well water.</p>
49	Water source/sources.	
50	Expected water use per day in KLD.	
51	Details of water requirements met from water harvesting.	It is suggested to construct a retaining wall on the southern side of the lease and also a garland drain for collection of rain water at the bottom which will be advantageously utilized for dust suppression, afforestation etc.
52	What are the impact of	The entire water requirement for domestic purpose and

	the proposal on the ground water?	industrial activities such as Dust suppression and greenbelt development is met from well and tube well water. Moreover, mining operation require very less quantity of water and as such its impact on ground water environment is negligible. Also, the mine lease area falls in Irikkur block which falls in "Safe" category as per CGWB records.
53	How much of the water requirement can be met from the recycling of treated waste water? (Facilities for liquid waste treatment)	Rain water collected from the quarry will be advantageously utilized for dust suppression, afforestation etc.
54	What is the incremental pollution load from waste water generated from the proposed activities?	There will not be any effluent generated since this is a mining project.
55	How is the storm water from within the site managed?	It is suggested to construct a retaining wall on the southern side of the lease and also a garland drain for collection of rain water at the bottom which will be advantageously utilized for dust suppression, afforestation etc.
<b>Impact on Biodiversity and Eco restoration Programmes</b>		
56	Will the project involve extensive clearing or modification of vegetation (Provide details)	The lease area is already mined. Very few plantation is found in the Northern part will be removed.
57	What are the measures proposed to minimize the likely impact on vegetation (details of proposal for tree plantation/ landscaping)	In the mine closure stage, the entire mined out area of 4.1988 Ha will be reclaimed back with bench plantation / plantation. The mined area will be properly fenced all around. Plantation at 2.5m x2.5m grid will be done. Plantation will be planted in all possible vacant places within the lease area. Local species in consultation with the state forest department can be chosen for this purpose.
58	Is there any displacement of fauna – both terrestrial and aquatic. – If so what	There are no schedule – 1 Fauna in the species in and around the project area. Domestic animals like Cows, Buffalos, Dogs, Cats etc. are commonly found near the area. There is no Wild Life Sanctuary or National Park in



	<p>are the mitigation measures ?</p> <p>Presence of any endangered species or red listed category (in detail)</p>	the study area.
<b>Impact on Air Environment</b>		
59	<p>What are the mitigation measures on generation of dust, smoke and air quality</p>	<p>Air pollution in mines is mainly due to:</p> <ul style="list-style-type: none"> <li>▪ Drilling &amp; Blasting.</li> <li>▪ Movement of HEMM.</li> <li>▪ Loading &amp; Unloading.</li> <li>▪ Transportation of Material.</li> <li>▪ Drilling &amp; Blasting.</li> <li>▪ Movement of HEMM.</li> <li>▪ Loading &amp; Unloading.</li> <li>▪ Transportation of Material.</li> </ul> <p>The following mitigation measures are and will be adopted:</p> <ul style="list-style-type: none"> <li>• Covering of drill holes with wet cloth for controlling dust emission</li> <li>• Usage of sharp drill bits for drilling of holes.</li> <li>• Regular wetting of transport road using water tanker to suppress the dust.</li> <li>• Well-designed blasting parameter, effective stemming to achieve optimum breakage occurs without generating fines.</li> <li>• Avoiding blasting during high wind periods where the fine dust is carried out away easily affecting the ambient air quality.</li> <li>• Use of controlled blasting techniques to keep the dust generation, noise as well as vibration level within the prescribed limits.</li> <li>• Proper maintenance of HEMM which avoids excessive noise and vibration</li> <li>• Acoustic enclosures for operator cabin.</li> <li>• Imparting sufficient training to operators on safety and environmental parameters</li> <li>• Proper maintenance of hauling equipment's</li> <li>• Regular maintenance of the transport vehicles.</li> <li>• Avoiding of overloading of tippers and covering of loaded tippers with tarpaulins during transportation.</li> </ul>

		<ul style="list-style-type: none"> <li>• Development of Greenbelt.</li> <li>• Periodical monitoring of air quality to take steps to control the pollutants.</li> </ul>						
60	Details of internal traffic management of the site.	Only few tippers will be engaged for transporting granite to outside crusher plant. No internal traffic management in the site is needed.						
61	Details of noise from traffic, machines and vibrator and mitigation measures	<p>Noise/Vibration generation in mining operations are mainly due to:</p> <ul style="list-style-type: none"> <li>• Mechanization adopted.</li> <li>• Drilling &amp; Blasting Operation.</li> <li>• Movement of Vehicles, etc.</li> <li>• Ground Vibration</li> </ul> <p>The mitigation measures are given below:</p> <ul style="list-style-type: none"> <li>• Planting of trees wherever possible to act as acoustic barriers.</li> <li>• Sound proof operator's cabin for equipment like dumpers, shovel, tippers, etc.</li> <li>• Proper and regular maintenance of equipment may lead to less noise generation.</li> <li>• Providing in-built mechanism for reducing sound emissions.</li> <li>• Providing earplugs, earmuffs to workers exposed to higher noise level.</li> <li>• Conducting regular health check-up of workers including Audiometry test for the workers engaged in noise/vibration prone area.</li> </ul>						
62	Impact of DG sets and other equipment on noise and vibration and ambient air quality around the project site and mitigation measures	<p>The following mitigation measures will be adopted for noise control:</p> <ul style="list-style-type: none"> <li>• Optimum design for burden and spacing.</li> <li>• Inclined drilling practice, whenever necessary.</li> <li>• Reducing explosive charge to minimum.</li> <li>• Proper deck charging practices, looking to consolidation and hardness of strata conditions.</li> <li>• Using ordinary electric milli second delay detonators, in combination with denoting fuse etc. This sequence of blasting reduces vibration to a large extent, thereby minimizing propagation of shock waves.</li> <li>• Avoiding blasting in unfavorable weather condition.</li> </ul>						
63	Air quality monitoring in detail	<p>AAQ monitoring were studied in 3 locations.</p> <table border="1"> <thead> <tr> <th>Param</th><th>Sample Code &amp; Location</th><th>*Perm</th></tr> </thead> <tbody> <tr> <td></td><td></td><td></td></tr> </tbody> </table>	Param	Sample Code & Location	*Perm			
Param	Sample Code & Location	*Perm						

		eter (in µg/m <sup>3</sup> )	ESA1	ESA2	ESA3	issible Limits
			Mine office	Arika mala (ne)	Medulakaya m (SW)	
		PM <sub>10</sub>	51.8	42.3	45.4	100
		PM <sub>2.5</sub>	20.8	17.5	18.2	60
		SO <sub>2</sub>	4.1	3.4	3.6	80
		NO <sub>2</sub>	8.2	6.4	7.2	80
		CO	BDL( DL- 1144)	BDL(D L- 1144)	BDL(DL- 1144)	4000
*National Ambient Air Quality Standards from CPCB Remarks: BDL- Below detectable limit, DL- Detectable Limit.						
All monitored values were found to be well within the prescribed NAAQ Limits						
Energy Conservation						
64	Details of power requirement and source of supply.	No electricity is needed for quarry operations as only diesel operated mining machinery are used for quarrying. Hence the negligible power requirement of the administrative buildings etc., are met from state grid. Nearby crusher unit is provided with Stand by Generator of 365 KVA and 100 KVA.				
65	Details of renewable energy (non – conventional) used.	KSEB				
Risk Management						
66	Are there sufficient measures proposed for risk hazards in case of emergency such as accident at the site?	<ul style="list-style-type: none"><li>• Yes. Bench height, width and slope will be maintained as per direction of DGMS.</li><li>• The mined area will be properly fenced all around to prevent fall of animals.</li><li>• License to store and use Explosives obtained from Explosive department, License No: E/SC/KI/22/1226(E45033), renewal dated 8.04.2015, valid up to 31.03.2019.</li></ul>				
	Are proposals for fencing around the quarry satisfactory? Storage of explosives/hazardous substance in detailFacility for solid waste management	A small portion of a land in the middle of the lease area is already mined. The total quantity of waste to be generated from the lease area is 76270 m <sup>3</sup> comprising 7600 m <sup>3</sup> of top soil and 68670 m <sup>3</sup> of over burden. The top soil will be used for reclamation purpose. Some part of the waste				

		material will be used for road formation and filling of the ground and the remaining waste will be used for filling of mined out void.																																								
Socio Economic Impacts																																										
67	Will the project cause adverse effects on local communities disturbance to sacred sites or other cultural values. What are the safe guards proposed?	Not Applicable																																								
68	Will the proposal result in any changes to the demographic structure of local population. If so, provide details.	No																																								
		<p>The project proponent have carried out beneficial social welfare activities to greatly improve the social and physical infrastructure of the locals around the project site. Its details are as follows:</p> <table><tr><th>S.No</th><th>Particulars</th><th>Amount In Rs</th></tr><tr><td colspan="3">Educational aid</td></tr><tr><td>1</td><td>Donation to Mr.Abin.P.A</td><td>25000</td></tr><tr><td>2</td><td>Donation to Miss. Seenu Francis</td><td>30000</td></tr><tr><td>3</td><td>Donation to Miss. Susmi Baby</td><td>20000</td></tr><tr><td></td><td>Sub-Total</td><td>75000</td></tr><tr><td colspan="3">Financial aid for House Renovation</td></tr><tr><td>4</td><td>Donation to Poor People for house repairing (12 persons)</td><td>385000</td></tr><tr><td></td><td>Total</td><td>4,60,000</td></tr></table> <p>For future CSR activities, need based assessment for the local community is made and a budget of Rs. 20 lakh for 5 years at Rs. 4.0 lakh per annum is provided.</p> <table><tr><th>S.No</th><th>Particulars</th><th>Capital Cost in Lakhs</th><th>Recurring Cost in Lakhs</th></tr><tr><td>1</td><td colspan="3">EDUCATION FACILITIES:</td></tr><tr><td>a.</td><td>St. Sebastian</td><td>Construction of Toilets</td><td>0.50</td><td>-</td></tr></table>	S.No	Particulars	Amount In Rs	Educational aid			1	Donation to Mr.Abin.P.A	25000	2	Donation to Miss. Seenu Francis	30000	3	Donation to Miss. Susmi Baby	20000		Sub-Total	75000	Financial aid for House Renovation			4	Donation to Poor People for house repairing (12 persons)	385000		Total	4,60,000	S.No	Particulars	Capital Cost in Lakhs	Recurring Cost in Lakhs	1	EDUCATION FACILITIES:			a.	St. Sebastian	Construction of Toilets	0.50	-
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69	Are the CSR proposals satisfactory. Give details																																									

		LP School	Providing tables and chairs and other requirements	-	1.0
			Providing first aid kits	0.05	-
			Supplying toys and other items for playing	0.20	-
		b. Anganwadi in Eruvessi	Providing drinking water facility	0.35	-
			Provision of playing materials	-	0.10
		<b>2 MEDICAL FACILITIES:</b>			
		PHC in Eruvessi	Provision of beds, bedsheets, pillows, etc.,	-	0.40
			Providing funds for palliative care	0.20	-
			Providing fans, tube lights, etc.,	-	0.5
			Providing chairs for OP patients	0.20	-
			Construction of drinking water tanks	1.0	-
		<b>3 AREA DEVELOPMENT:</b>			
		Eruvessi Panchayat	Providing drinking water facility	8.0	-
			Construction of bus shelter	4.0	-
			Erecting street lights	1.5	-
			Erecting street water taps	0.50	-
			Contribution to functions through Panchayat	-	1.5
		<b>Sub-total</b>		<b>16.5</b>	<b>3.5</b>

		<b>Total Cost (Capital and Recurring)</b>	<b>20.00</b>
70	What are the projects benefits in terms of employment potential?	Presently, more than 35 persons find direct employment in the quarry and crusher operations. Indirectly, more than 100 people get employed in various project and allied services like logistics, loading, green belt creation, miscellaneous services etc.	
<b>PART C</b>			
71	Details of NABET approved EIA Consultant engaged- Their name, address and accreditation details	Creative Engineers & Consultants, 9/4b, Barathwajar Street, East Tambaram, Chennai – 600 059. PH – 044 – 22395170 Mobile : 9444133619 Email – cecgiri@yahoo.com	
<b>Summary and Conclusion</b>			
72	Overall justification for implementation of the project.	<p>The final product from the quarry is used in proponent's own crusher unit for producing aggregates which is an essential supply component in road making, construction activities and building works, which are all core sectors for infrastructural growth of the country.</p> <p>Working of this quarry resulted in overall development of the region in its own way due to provision of direct &amp; indirect employment, improvement in the general living standards and knowledge sharing, improved wage level and the living standard of the local people and continual improvements of the local amenities for the local society.</p> <p><del>Under their CSR initiatives, proponent has already spent</del> Rs 4.6 lakh. These programmes will continue in future vigorously. Rs. 4.0 lakh per year will be spent for future CSR activities. Future planned social outreach programmes will further enhance the life style, income levels educational and medical services and infrastructural services of the local area and local community.</p>	
73	Explanation of how adverse impact have been mitigated.	The mitigation measures to control the adverse impact due to this project on various environmental factors are explained in Part B above.	

2. The proposal was considered in the 59<sup>th</sup> meeting of SEAC, Kerala, held on 11th and 12<sup>th</sup> July, 2016. The Committee deferred the item for field visit to verify the steep slopes of the site along with the upper and lower slopes and for the following clarifications.

1. Documents regarding ownership of the proposed land and approach road.

2. Cadastral map marked with boundaries of the lease area, additional area, and total area under the ownership of the proponent.
3. Details regarding Storm water management
4. Details of RWH setup in PHC and Anganvadies proposed under CSR.
5. Copy of latest quarrying permit
6. Partnership deed documents

The proponent agreed to set apart Rs 16.5 lakhs (non-recurring) and Rs. 4 lakhs for first two years and 5 lakhs per year (recurring) for next 5 years for CSR activities for the welfare of the local community in addition to the 1% of the profit towards the BMC. He also agreed to spend this amount in consultation with the local Panchayath.

Subsequently, the site visit to the quarry was carried out on 12<sup>th</sup> February 2017 by Dr P S Harikumar and Dr. Khaleel Chovva and reported that

*The application can be considered only after fulfilling following conditions:*

- 1) Provide fencing around the site
- 2) The mining area should be clearly marked
- 3) The debris and overburden whatever seen in the area shall be stored at a designated site
- 4) Drainage should be properly provided.

*Only after, implementing the above conditions and submitting the documentary evidence, the application for the issuance of EC need to be considered.*

3. The proposal was placed in the 69<sup>th</sup> meeting of SEAC held on 9<sup>th</sup> & 10<sup>th</sup> April 2017. 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 defer the item for submission of the proof for having applied for Wild Life Clearance.

The proponent has submitted the documents sought by the 69<sup>th</sup> meeting of SEAC.

4. The proposal was considered in the 74<sup>th</sup> meeting of SEAC held on 14<sup>th</sup> & 15<sup>th</sup> June 2017. The Committee verified the additional documents submitted by the proponent and found satisfactory. Based on the Mining plan, Form.1, all other documents submitted with the proposal and the field visit report, the committee decided to Recommend for issuance of EC subject to the general conditions in addition to the following specific condition.

1. *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 proposal was considered in the 72<sup>nd</sup> meeting of SEIAA held on 1<sup>st</sup> August 2017. Authority accepted the recommendation of SEAC and decided to issue EC subject to general condition in addition to the following specific conditions:
  1. Fencing should be provided around the site
  2. The mining area should be clearly marked
  3. The debris and overburden seen in the area shall be stored at a designated site
  4. Drainage should be properly provided.
  5. 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

The proponent should set apart an amount of Rs.16.5 lakh (non-recurring) and Rs.4 lakh per annum (recurring) for CSR activities for the welfare of the local community in consultation with the local Panchayat. A notarised affidavit for the commitment of CSR activities and agreeing all the general and the specific conditions have to be submitted before the issuance of EC. The proponent has submitted an affidavit vide reference 6<sup>th</sup> cited, satisfying all the above conditions.

6. Environmental clearance as per the EIA notification 2006 is hereby accorded for the proposed building stone quarry project of M/s.Everest Stone Crusher and Granites, MT-89-V, Highway Arcade, Thana, Kannur -676 304, Kerala for an area of 4.90 Ha,in Sy No. 4(P) of Eruvessi Village, Taliparamba Taluk Kannur District, subject to the specific conditions as recommended by SEIAA in para 5<sup>th</sup> above, all the environmental impact mitigation and management measures undertaken by the project proponent in the 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.
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 above undertakings and the conditions and the undertakings in



Chapter 4 (Mining), Chapter 5 (Blasting), 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.

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, Kannur to take legal action under the Environment (Protection) Act 1986.
  - iii. The given address for correspondence with the authorised signatory of the project is Mr.K.C.James, Managing Partner, M/s.Everest Stone Crusher and Granites, MT-89-V, Highway Arcade, Thana, Kannur, Kerala – 670002.

Sd/-  
**JAMES VARGHESE.I.A.S,**  
**Member Secretary (SEIAA)**

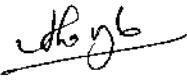
To,

Mr. K.C.James,  
Managing Partner,  
M/s.Everest Stone Crusher and Granites,  
MT-89-V, Highway Arcade,  
Thana, Kannur, Kerala – 670002.

Copy to,

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. The Director, Mining & Geology, Thiruvananthapuram -4.
4. The Member Secretary, Kerala State Pollution Control Board
5. The District Collector, Kannur
6. The District Geologist, Kannur
7. The Tehsildhar, Taliparamba Taluk.
8. Chairman, SEIAA.
9. Website.
10. S/f
11. O/c

*Forwarded /By Order*

  
*Administrator(SEIAA)*

# STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA

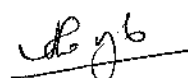
## GENERAL CONDITIONS (for mining projects)

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](http://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 PM<sub>10</sub> and PM<sub>2.5</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.
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 i. 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.



  
For Member Secretary, SEIAA Kerala

