

QUARRY PROJECT OF  
**M/s. EVEREST STONE & GRANITES**

SURVEY NO. : 4 (P)  
EXTENT : 4.90 hectares  
VILLAGE : ERUVESI  
TALUK : THALIPARAMBU  
DISTRICT : KANNUR  
STATE : KERALA

**3<sup>rd</sup> COMPLIANCE REPORT**

Ref: EC. No: 83/2017 (File No: 709/SEIAA/KL/5786/2014)

DATED: 21/11/2017

FOR THE PERIOD UP TO

**MAY 2019**



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## **I. ABOUT THE PROPONENT**

Mr. K.C. James, Managing Partner & Authorized signatory of M/s Everest stone & Granites having correspondence office at MT-89-V-Highway Arcade, Kannur, Kerala - 670002.

State Environment Impact Assessment authority (SEIAA) accorded Environmental Clearance No: 83/2017 (File No: 709/SEIAA/KL/5786/2014) Dated: 21/11/2017 to the quarry project in Eruvessi Village, Thaliparambu Taluk, Kannur District, Kerala State, managed by Mr. K.C. James, Managing Partner & Authorized signatory of M/s Everest stone & Granites having correspondence office at MT-89-V-Highway Arcade, Kannur, Kerala - 670002.

## **II. ABOUT THE PROJECT**

### **a. Project Category:**

The project comes under the Category B2, Activity 1(a), (i) of Schedule of EIA Notification 2006 and subsequent amendments.

### **b. Project Location:**

Survey No 4 (P) of Eruvessi Village, Thaliparambu Taluk, Kannur District, Kerala.

The proposed project site falls within latitude and longitude value:

Latitude (N)	12° 07' 23.2" N to 12° 07' 35.5" N
Longitude (E)	75° 34' 28.1" E to 75° 34' 36.7" E

### **c. Project Extent And Activity:**

The project is for quarrying of 1,000 TPD of building stone from an area of 4.90 hectares of land located as specified above.

### **d. Project Description:**

The project activity involves about 100 % of the pit area for exploring building stone. At the end of life of mine, excavated pit will be fully reclaimed and rehabilitated by plantation. The project does not involve any underground mining activities. The mining is done by open cast semi mechanized method.

### **III. REPORT OF COMPLIANCE**

#### **A. SPECIFIC CONDITIONS**

<b>ITEM NO</b>	<b>STIPULATIONS IN EC</b>	<b>STATUS OF COMPLIANCE</b>	<b>REMARKS</b>
S-1	Fencing should be provided around the site.	The site will be fenced around with barbed wires.	
S-2	The mining area should be clearly marked.	The mining area is clearly marked.	
S-3	The debris and overburden seen in the area shall be stored at a designated site.	The debris and overburden seen in the area is stored at a designated site.	
S-4	Drainage should be properly provided.	Drainage is provided.	PLATE 11
S-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	A separate plot is set apart for preserving rare plants in the vicinity.	

## B. GENERAL CONDITIONS

<b>Item No</b>	<b>Stipulations in EC</b>	<b>Status of Compliance</b>	<b>Remarks</b>
G-1	Rain Water Harvesting facility should be installed as per the prevailing Provisions of KMBR/KPBR, unless otherwise specified.	Would be provided.	
G-2	Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.	An Environment Monitoring Cell is constituted and made functional	INDEX IV.c
G-3	Suitable avenue trees should be planted along either side of tarred road and open parking areas, if any, inclusive of approach road and internal roads.	Avenue trees by way of natural vegetation are present along either side of the tarred road, both approach road and internal road.	PLATE 2
G-4	Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.	The working of the quarry is only in day time. So we will arrange few solar devices in the office for general purpose.	
G-5	Sprinklers shall be installed and used in the project site to contain dust emissions.	Sprinklers are used in the project site to contain dust emissions. The haulage road is provided with stationary sprinklers also to avoid dust emission.	
G-6	Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.	It is assured that eco-restoration including the mine closure plan will be done at the own cost of the project proponent.	ANNEXURE 1
G-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	At the time of the closure of the mine, it shall be ensured that the directions contained are scrupulously followed.	
G-8	Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented.	Activities towards Corporate Social Responsibility are being implemented.	ANNEXURE 9
G-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.	The total mining area has been covered by barbed wire fencing to avoid inadvertent entry of human being and also for falling of animals etc.	

G-10	Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per Stipulations of Explosive Department.	The warning alarms are provided and also the blasters assistant will check the surroundings of the blasting area before the blasting is started to prevent the entry of humans and animals to the blasting zone.	
G-11	Control measures on noise and vibration prescribed by KSPCB should be implemented.	Scrupulously follows the directions contained.	
G-12	Quarrying activities should be limited to day time as per KSPCB guidelines.	Quarrying activities is limited as per KSPCB guidelines.	
G-13	Blasting should be done in a controlled manner as specified by the regulation of explosives Department or any other concerned agency.	Scrupulously follows the directions contained.	ANNEXURE 2
G-14	A licensed person should supervise/control the blasting operations.	Scrupulously follows the directions contained. Licensed persons for supervising the blasting and other operations in the site are implemented.	ANNEXURE 6 & 7
G-15	Access roads to quarry shall be tarred to contain dust emissions that may arise during transportation of materials.	The access road to the site is maintained well and sprinkled with water to avoid dust generation during transportation of minerals.	PLATE 9 &13
G-16	Overburden materials should be managed within the site and used for reclamation of mine pit as per mine closure plan/ specific conditions.	Overburden is stacked in pre-determined site specified for the purpose.	
G-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 conditions.	Height of the bench is always maintained below 5m and width of the bench is kept at 10-15m for the easy movement of excavators and trucks.	PLATE 4
G-18	Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.	Would be provided.	
G-19	Maximum depth of mining from general ground level at site shall not exceed 10m.	Maximum depth of the mining is limited as per the conditions.	
G-20	Non mining operations should be carried out at places having a slope greater than 45°.	It is ensured that no mining is carried out at places having slope greater than 45°.	
G-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	Acoustic enclosures are provided for the existing crusher unit as prescribed standards given by CPCB/KSPCB.	

	kept within prescribed standards given by CPCB/KSPCB.		
G-22	The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.	The workers on the site is would be provided with the required protective equipment such as ear muffs, helmet, etc in the time of starting of work.	
G-23	Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.	Drainage facility is provided in the site.	PLATE 11
G-24	The transportation of minerals should be done in covered trucks to contain dust emissions.	The transportation of minerals are done in covered trucks.	
G-25	The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.	Saplings are planted.	
G-26	Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations.	Disposal of spent oil from diesel engines is done under relevant Rules/Regulations.	
G-27	Explosives should be stored in magazines in isolated place specified and approved by Explosive Department.	Explosives are stored in magazines in isolated place.	PLATE 8
G-28	A Minimum buffer distance of 100 m from the boundary of the quarry to the nearest dwelling unit or other structure not being any facility for mining shall be provided.	Scrupulously follows the directions contained.	
G-29	100 m buffer distance should be maintained from forest boundaries.	Statutory safe distance shall be maintained without fail.	
G-30	Consent from Kerala State Pollution, Control Board under Water and Air (Acts) should have been obtained before initiating mining activity.	Consent issued from Kerala state pollution control board (file no: PCB/KNR/ICO/1965/2007 dated 06/12/2017 Valid up to 30/11/2020)	ANNEXURE 3
G-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.	All the required statutory clearances have been obtained from the respective authorities. And all the copies are attached.	
G-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 EC is issued. The projects would require a fresh appraisal by this authority, for which the	The company shall abide by the directions of SEIAA Kerala in such a context. If arises.	

	proponent shall apply and get the approval of this Authority.		
G-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.	All the safeguard measures are done as per Environment (Protection) Act, 1986.	
G-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.	Scrupulously follows the directions contained and is reviewed periodically by the management.	ANNEXURE 3
G-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 <a href="http://www.seiaakerala.org">www.seiaakerala.org</a> .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	Advertisement regarding the obtaining of EC were given in 2 local newspaper and submitted a copy of it as a proof in first compliance report.	
G-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	Scrupulously follows the directions contained. Copy of the EC is submitted to the concerned panchayath.	ANNEXURE 4

	put on the website of the company by the proponent.		
G-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 email) and upload the Status of compliance of the stipulated EC conditions, including results of monitored data on their website. 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	Conditions are being complied with. This report is in compliance with submission of six monthly compliance reports.	
G-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.	The conditions of Environmental Clearance are prominently displayed in a metallic board.	PLATE 6
G-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.	The proponent has provided notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC has been scrupulously followed.	ANNEXURE 5
G-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.	Scrupulously follows the directions contained.	
G-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.	Ensured that no natural water course and/or water resources were obstructed due to any mining operations.	
G-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.		

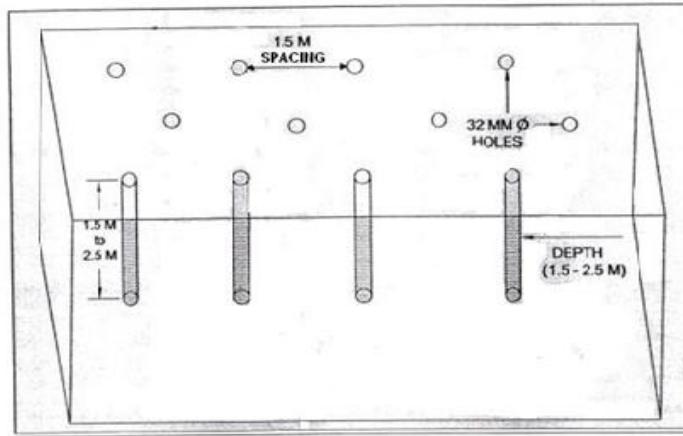
	Water sprinkling should be increased at places loading and unloading points & transfer point to reduce fugitive emissions.	We are scrupulously following the directions contained as per the conditions from Pollution Control Board.	ANNEXURE 10
G-43	The top soil, if any, shall temporarily be stored at earmarked 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 dumpsite(s) only. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface runoff. 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.	The temporarily stored top soil only used for land reclamation and plantation process, and ensured that the maximum height of the dumps shall not exceed 8m and width 20m and overall slope of dumps shall be maintained to 45°. The OB dumps are scientifically vegetated with suitable native species to prevent erosion and surface runoff. The entire excavated area will be backfilled. Monitoring and management of rehabilitated areas will continue until the vegetation becomes self-sustaining.	PLATE 5
G-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 in to the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green development etc. The drains shall be regularly de silted particularly after monsoon and maintained properly.	Catch drains and siltation ponds of appropriate size will be constructed around the mineral dumps. The water so collected will be used according to the directions of SEIAA.	PLATE 11
G-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 PM2.5 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.	Scrupulously follows the directions contained and ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	
G-46	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at	There is a regular control on dust emission sources. Water spraying arrangements are properly maintained.	

	transfer points should be provided and properly maintained		
G-47	Measures should be taken for control of noise levels below 85dBA in the work environment.	Measures have been taken for the control of noise levels below 85 DbA in the work environment.	
G-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.	A separate environmental management cell with suitable qualified personnel has been set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	INDEX.IV.c
G-49	The funds earmarked for environmental protection measures and CSR activities should be kept in separate account and should not be diverted for other purposes. Year wise expenditure should be reported to the State Environment Impact Assessment Authority (SEIAA) office.	The funds earmarked for environmental protection measures and CSR activities are being kept in separate account and have not been diverted for other purposes. Year wise expenditure will be reported to the State Environment Impact Assessment Authority (SEIAA) office.	ANNEXURE 9
G-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.	The Regional office of MOEF &CC located at Bangalore can monitor compliance of the stipulated conditions any time. The project authorities will extend full cooperation to the officer(S) of the Regional Office by furnishing the requisite data/information/monitoring reports.	
G-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.	There is no appeal against EC and we are strictly following the rules and Scrupulously follows the directions contained.	
G-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	Strictly follow the rules, if any factual data is concealed or false/fabricated data is submitted and failure to comply with any of the conditions mentioned above is found.	
G-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.	SEIAA can revoke any order if any of the specific or this implementation of any of the above conditions is not satisfactory.	
G-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.	Yes, all 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.	
G-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.	Yes, 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.	
G-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.	Yes, the Environmental Clearance is subjected to the final order of the courts in any pending litigation related to the land or project, in any court of law.	
G-57	The mining operation shall be restricted to above ground water table and it should not intersect ground water table.	The mining operation has been restricted to above ground water table and it will not intersect ground water table.	
G-58	All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution taking center. Washing of all vehicles shall be inside the lease area.	Scrupulously follows the directions contained.	
G-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.	Scrupulously follows the directions contained.	
G-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.	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 will be carried out and reported in the six monthly reports to SEIAA .	
G-61	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Occupational health surveillance program of the workers will be done periodically to observe any contractions due to exposure to dust and corrective measures will be taken, if needed.	

#### IV.a. DRILLING

The excavation of mineral is proposed by excavators. The mineral is fractured and easily exploitable by rock breakers and excavators. The hard strata are proposed to excavate after drilling and blasting. The cross-sectional view of drilling operations is shown below:-



#### Salient features of drilling

- About 30 to 50 holes per blast of 32 mm dia and to a depth of 2 to 2.5m will be adopted.
- It is estimated about 2 to 3 T production per hole.
- Number of blasts per day depends upon the workable area and production to be achieved.
- The spacing of 1.0 to 1.5m between the holes will be adopted.
- About 250g per hole of explosive will be used. However, 10 kg/blast will be adopted at any point of time.
- Millisecond electric blasting will be adopted to limit the PPV and Noise levels within the stipulated standards.

## **IV.b. BLASTING**

The controlled blasting is proposed by adopting all the safety measures as per “MMR 1961” and with the permission of DGMS.

In this area for fragmentation of granite the blasting will be conducted. Multiple blast holes of 1.0 to 1.5 m depth will be drilled with the help of 32 mm drill rod, Jack Hammer and Air Compressor of 100 cfm capacity.

It is estimated about 250 g of explosives per hole is required. About 30 – 50 holes per blast are proposed. Therefore, the requirement of explosives will be about 10 kg/ blast.

### **2.6.6.1 BLASTING SAFEGUARD**

- Blasting in the open cast pits will be done only during day time at designated hours.
- Only competent blasters will be appointed to handle explosive.
- Explosives will be stored in approved and licensed magazine as per Explosive Act/ Rules.
- Explosives will be brought from magazine to blasting site in licensed Explosive Van under the care of blaster.
- Sufficient warning signals will be given before blasting the holes.
- Guards will be posted on all roads and paths at least 250 m distance to stop entrance to the danger zone during blasting hour.
- Controlled blasting will be practiced to control vibrations and flying fragments.
- Optimum charge will be used, while blasting near office complex/ infrastructure site.
- Maximum charge per delay will always be less than 10kg to limit the PPV levels within the DGMS standards of 15 mm/sec.

#### **IV.c.DETAILS OF ENVIRONMENTAL MONITORING CELL**

An environmental monitoring cell was formed with Mr. K.C. James head of the monitoring cell and made functional. Meeting of monitoring cell is arranged monthly and discuss the status of the compliance of the specific and general conditions contained in the Environmental clearance order. The details of the monitoring cell members are given below:-

<b>Sl. No.</b>	<b>Post</b>	<b>Name</b>
1	Head of the monitoring cell	Mr.K.C. James (Managing Partner)
2	Head in charge (Environment)	Mr. Fedrine Jose
3	Senior Environmental Officer	Mr. Benny
4	Environmental Officer	Mr. Toby
5	Name of the environmental officer in charge	Mr. Santhosh
6	Name of the officer Environment, Health and safety	Mr. Linto
7	Name of the Assistant Officer of Environment,Health and safety	Mr. Rince
8	Name of the environmental consultant	GEC Mining Solutions

#### **IV.d. LIST OF TREES IN THE QUARRY SITE**

Natural vegetation including trees, shrubs and herbs present in the quarry site are mentioned in the table below:-

<b>Sl No.</b>	<b>Scientific Name</b>	<b>Common Name</b>	<b>Family</b>
1	<i>Hevea brasiliensis</i>	Rubber	Euphorbiaceae
2	<i>Magnifera indica</i>	Mango tree	Anacardiaceae
3	<i>Macaranga peltata</i>	Vatta	Euphorbiaceae
4	<i>Cocos nucifera</i>	Coconut Tree	Arecaceae
5	<i>Borassus flabellifer</i>	Palm	Arecaceae

## **-V. PLATES**

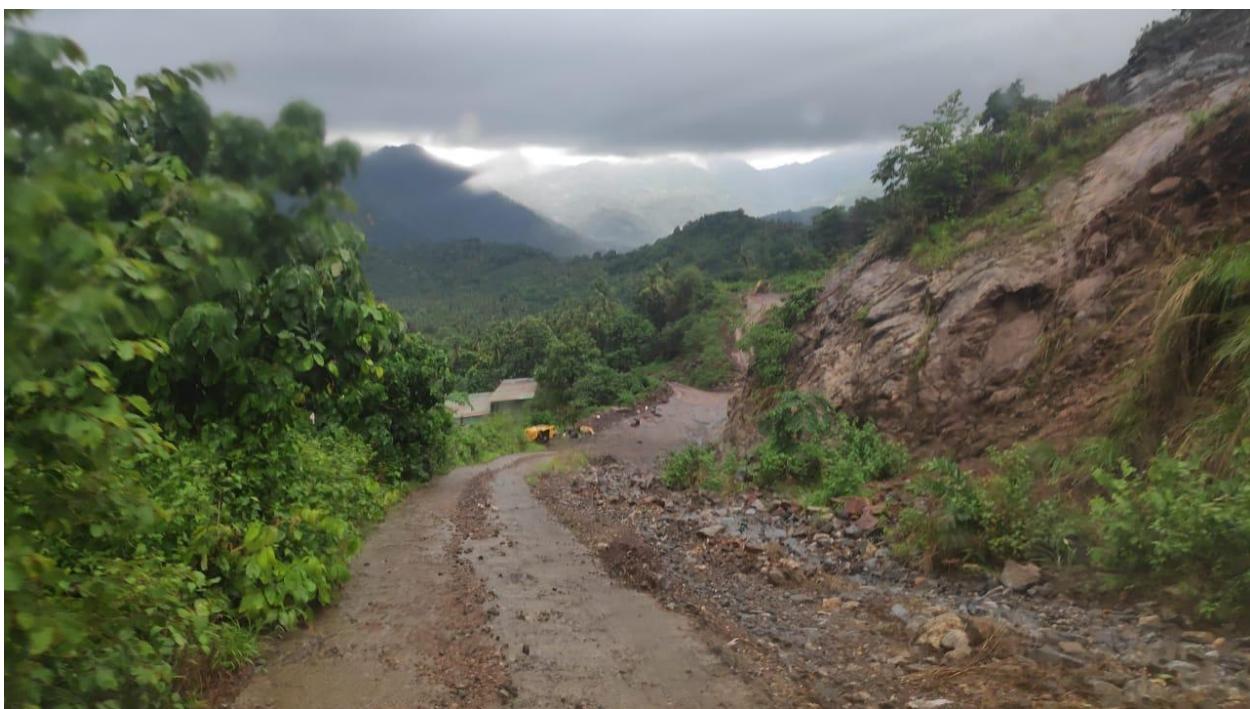
### **Plate -1**

Quarry Site



## Plate -2

Photographs showing natural vegetation in the approach sides of roads



### **Plate -3**

Photographs showing natural vegetation in the project area





**Plate -4**

Benches in the project area



## Plate -5

Photograph showing Top soil Dump yard



## Plate -6

Photograph showing details of the environmental clearance prominently displayed in a metallic board



## **Plate -7**

Rest room for Workers



## Plate -8

Explosive magazine



## Plate -9

### Tarred Road



## Plate -10

Boundary Pillar



**Plate -11**

**Drainage**



## Plate -12

### Warning Sign Board



### **Plate -13**

Concrete Road



**ANNEXURE 1**

**AFFIDAVIT FOR ECO-  
RESTORATION**

# भारतीय गैर न्यायिक



കേരളം കേരള KERALA

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24AA 187436

## AFFIDAVIT

I, K.C James, Managing Partner and Authorized signatory of M/s Everest Stone Crusher & Granites, having its correspondence office at MT-89-V-Highway Arcade, Kannur, Kerala - 670 002, do hereby affirm and confirm as follows:-

1. That, I am running a Quarry Project in Survey Nos. 4(p) at Eruvessi Village, Eruvessi Panchayath, Thaliparambu Taluk, Kannur district, Kerala.
2. That, the eco-restoration including the mine closure plan will be done at our expenses.



12/12/18  
ROOPESH. M. P.  
ADVOCATE & NOTARY  
KANNUR

DEPONENT



തിരുമ്പി. 11-12-18 ക മും  
സംശയ താലാട്ട് ആഫീസ് ആക്ടിംഗ്  
ബെബാർ കെ.പി. ഇംഗ്ലീഷ്

भारतीय गैर न्यायिक



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Verification:

Verified that my above statements are true to the best of my knowledge and belief and no material has been concealed therein.



Date: 11/12/2018

DEPONENT

Literate deponent / Executant solemnly affirm and signed  
this before me on this 12<sup>th</sup> day of Dec 2018  
entered in volume No. 15, Page No. 15, Serial No. 3453  
in Kannur

107000 K.C. James Managing Partner, Everest  
Stone Crusher & Granites  
Kannur.



मात्रमें 11-12-18 का 100  
केरल कालांडर अधिकार सुनिकाल  
कालांडर के.पी. अधिकार

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# **ANNEXURE 2**

# **EXPLOSIVE LICENSE**

**LICENCE FORM LE-3**  
(See article 3(a) to (d) of Part I of Schedule IV of Explosives Rules, 2008)

**Licence to possess : (c) for use, explosives of class 1, 2, 3, 4, 5, 6 or 7 in a magazine**

Licence No. : E/SC/KL/22/1226(E45033)  
Annual Fee Rs.2400/-



1. Licence is hereby granted to : **Shri K.C.James Managing Partner (Occupier : Shri K.C.James, Managing Partner)**  
M/s. Everest Stone Crusher & Granites, MT-89-V, Highway Arcade, Thatta, Konour, Town/Village - Thana  
District-KANNUR, State-Kerala, Pincode - 670002
2. Status of licensee : **Partnership Firm**
3. Licence is valid only for the following purpose : possess for use of **Nitrate mixture - Slurry and Emulsion Explosives, Safety Fuse, Electric Detonators, Ordinary Detonator**.
4. (a) Licence is valid for the following kinds and quantity of explosives:

Sr. No.	Name and Description	Class & Division	Sub-division (If any)	Quantity at any one time
1.	Nitrate mixture - Slurry and Emulsion Explosives	2,0	0	100 Kg.
2.	Safety Fuse	6,1	0	2000 Mtrs
3.	Electric Detonators	6,3	0	1500 Nos.
4.	Ordinary Detonator	6,3	0	1500 Nos.

(b) Quantity of explosives to be purchased in a calendar month [applicable for licence under article 3(b) and (c)] : **10 times as above.**

5. The licensed premises shall conform to the following drawing(s):  
Drawing No : E/SC/KL/22/1226(E45033) dated : 11/05/2011
6. The licensed premises are situated at following address:  
Survey No(s). 4, Town/Village : Eruvessy village, taliparamba taluk  
Police Station : Kudiyamala  
PinCode : 670602      Phone : 9961660331
7. The licensed premises consist of following facilities : **portable explosives magazine of D and E type manufactured by thekkans engg and fabrication unit cochin**
8. The licensee is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures.  
(1) Drawings (showing site, constructional and other details) as stated in serial No. 5 above.  
(2) Conditions and Additional Conditions of this licence signed by the licensing authority.  
(3) Distance Form DE-2
9. This licence shall remain valid till **31st day of March 2015**

This licensee is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under Set VIII, wherever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and Annexure attached hereto.

The Date: 11/05/2011

Sd/-  
**Joint Chief Controller of Explosives**  
South Circle, Chennai

**Amendments :**

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 10/10/2013
- Transfers :
- Change in Licensee Name/Address/Status dated : 22/07/2013

Endorsement for renewal of licence:

Date of Renewal

Date of Expiry

Signature of licensing authority

08/04/2015

31/03/2019

Dy. Chief Controller of Explosives, Ernakulam

For Deputy Chief Controller of Explosives

Ernakulam

37

**ANNEXURE 3**

**POLLUTION**

**CERTIFICATE**



## KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/KNR/ICO/1965/2007

Date of issue :2017-12-06

### CONSENT VARIATION ORDER

Consent No : PCB/KNR/ICO-R/7/2016

Ref : 1. Consent no. PCB/KNR/ICO/205/2014 dated 16/05/2014

2. Consent no. PCB/KNR/ICO-R/7/2016 dated 06/01/2016

3. Your application dated 05/12/2017

The ' Integrated Consent to Operate' issued as per reference above to M/s QUARRY OWNED BY EVEREST STONE CRUSHER & GRANITES, ERUVASSY, KAYALAMPARA P. O., KANNUR DT - 670632 is hereby modified & issued to M/s QUARRY OWNED BY EVEREST STONE CRUSHER & GRANITES, ERUVASSY, KAYALAMPARA P. O., KANNUR DT - 670632 The consent(s)/ variation order(s) cited under reference are integral part of this consent variation order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

#### I. GENERAL

S.No.	Items	Description
1	1.12 ANNUAL FEE	Rs. 12000/-
2	1.13 FEE REMITTED	Rs. 36000/-
3	1.16 ACTIVITY	QUARRYING IN 4.9 HECTARES
4	1.1 VALIDITY	30/11/2020
5	1.14 CAPITAL INVESTMENT	74.61 LAKHS

#### II. CONDITIONS

2.2 This consent is valid upto 30/11/2020. For continuing to operate beyond the validity date application for the renewal has to be submitted through online (website: krocmms.nic.in) before 31/08/2020.

3.2 Deleted

3.3 Deleted

4.1 Deleted

4.3 Deleted

4.4 Deleted

4.6 There shall be a minimum distance of 50 m from the boundary of the quarry to the nearest residence, places of worship, railway line, bridge, water body, public building and public road having vehicular traffic.

4.13 Deleted

All other conditions of the Integrated Consent to Operate issued as per reference above remain unchanged.

**KRISHNAN M N** Digitally signed by KRISHNAN M N  
Date: 2017.12.06 11:07:20 +05'30'

DATE :06/12/2017

SIGNATURE & SEAL OF ISSUING AUTHORITY  
ENVIRONMENTAL ENGINEER



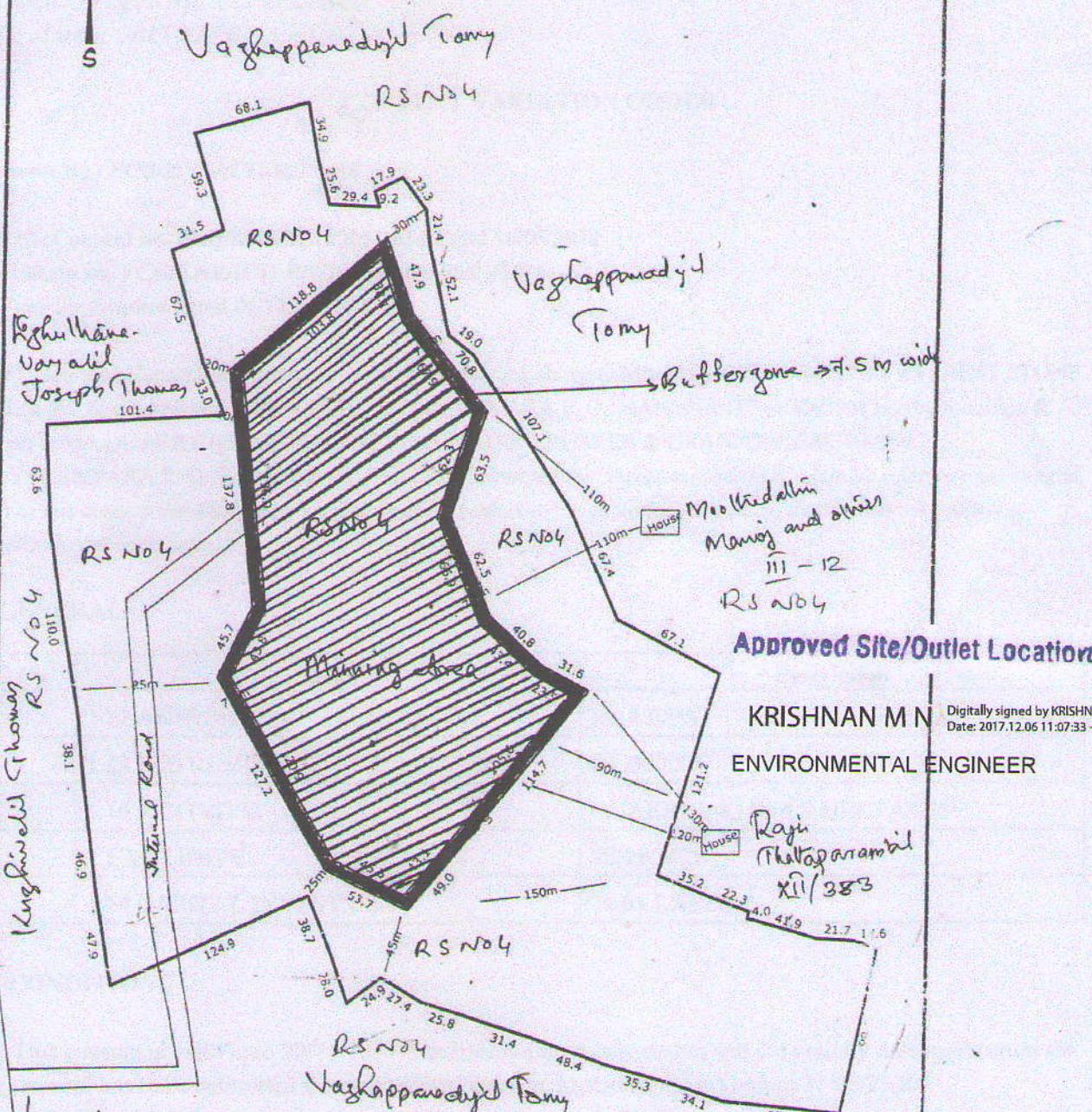
**To**

K. C. JAMES, MANAGING PARTNER, EVERST STONE CRUSHER & GRANITES, MT 89 V,  
HIGHWAY ARCADE, KANNUR DT - 670002

1. This digitally signed document is legally valid as per the Information Technology Act 2000
2. For verifying this document please go to [krocmmms.nic.in](http://krocmmms.nic.in) and search using date of issue/name of the unit/Application Number in “Consent Granted Applications” link in the home page of the Board’s Online Consent Management and Monitoring System.

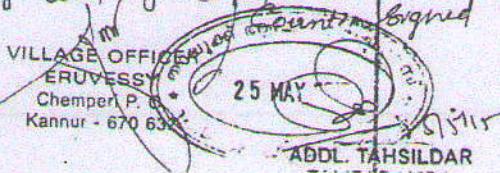
District : Kannur  
Taluk : Thaliparamb  
Village : Kannur

Re. Sq. No. : 4 pt.  
Total Area-13.454Hector  
Mining Area: 4.9 Ha  
Scale : 1cm = 24m



hand owners. Managing Partners and partners,  
Fayest Stone Crushers and Crankles

→ *signed to send*  
B OFFICER  
JEWELL Office.  
John P. O.  
11-670 632



# **ANNEXURE 4**

# **PANCHAYATH LICENSE**

**ANNEXURE 5**

**AFFIDAVIT FOR EC  
CONDITIONS**



കേരളം കേരല KERALA

Page No. 1 \_\_\_\_\_  
Total 2 \_\_\_\_\_ Pages

24AA 187434

I, K.C James, Managing Partner and Authorized signatory of M/s Everest Stone Crusher & Granites, having its correspondence office at MT-89-V-Highway Arcade, Kannur, Kerala - 670 002, do hereby affirm and confirm as follows:-

1. I am running a Quarry Project in Survey Nos. 4(p) at Eruvessi Village, Eruvessi Panchayath, Thaliparambu Taluk, Kannur district, Kerala.
2. That, all the conditions stipulated in the Environment Clearance would be scrupulously followed.



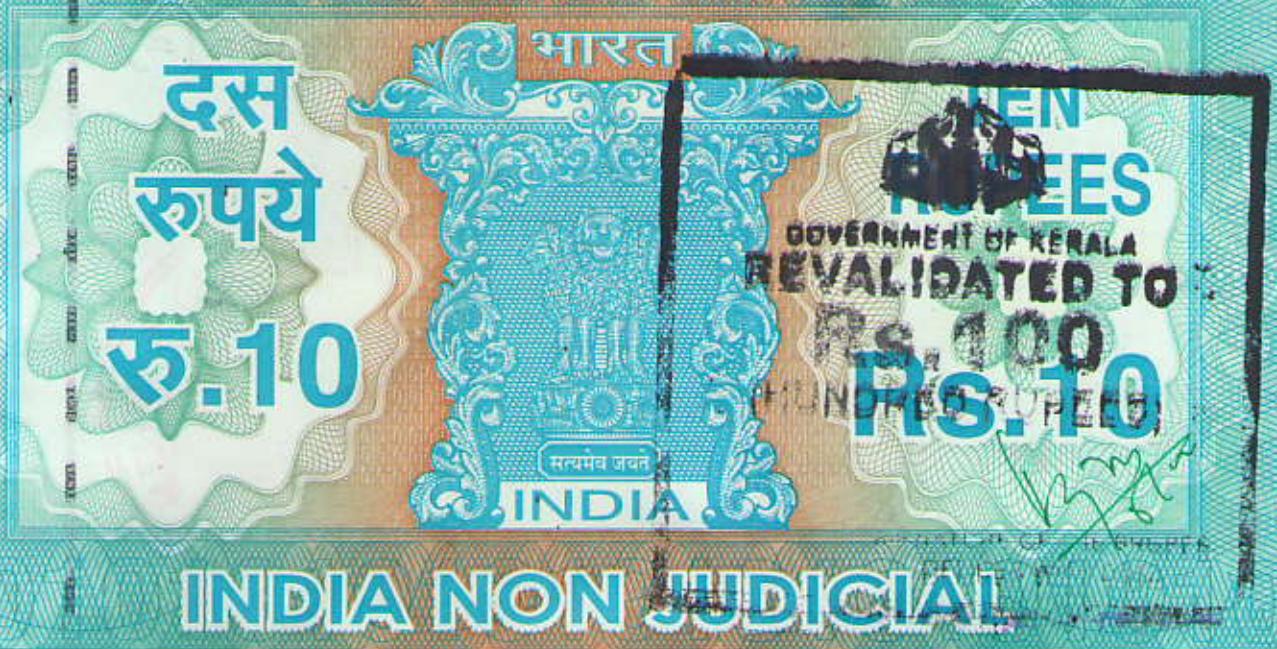
ROOPESH, M. P.  
ADVOCATE & NOTARY  
KANNUR

DEPONENT

106.997 K.C. James Managing Partner,  
Everest Stone Crushers &  
Granites.  
11-12-18 \$ 100 Kannur.



# भारतीय गैर न्यायिक



കേരളം കേരള KERALA

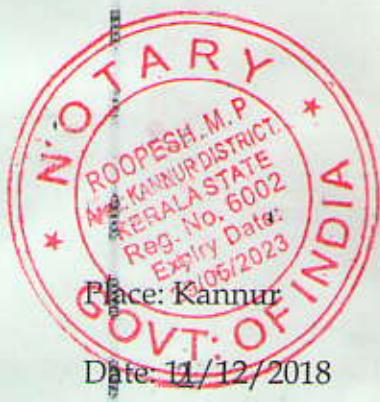
2

Page No. 2  
Total 2 Pages

24AA 187435

## Verification:

Verified that my above statements are true to the best of my knowledge and belief and no material has been concealed therein.



DEPONENT

Literate deponent / Executant solemnly affirm and signed  
this before me on this 12<sup>th</sup> day of Dec 2018  
entered in volume No. xxii Page No. 15 Serial No. 3452



10.6.998. പ്രോ. K. C. James Managing Partner,  
Everest Stone Crushers-  
Granites.  
Kannur  
സിറ്റി 11- 12/F കി. 100  
മലബാറിൽ താഴുക്ക് ആഹാരം ആകട്ടണ  
സാമ്പാദിക കെ.പി. മുഹമ്മദ്

*B stamp on reverse*

**ANNEXURE 6**

**MINE FOREMAN'S**

**CERTIFICATE**

Cert No. FR 4239



भारत सरकार/Government of India  
खान अधिनियम, 1952/Mines Act, 1952  
खनन परीक्षा बोर्ड/Board of Mining Examinations

खान फोरमैन सक्षमता प्रमाण-पत्र

(केवल ओपेनकास्ट खानों तक सीमित)

MINES MANAGER  
S. H. IRON ORE MINES  
MS. V. S. LAD & SON  
SANDUR-563419

(Restricted to mines having opencast workings only)

MINE FOREMAN'S CERTIFICATE OF COMPETENCY

(धात्विकीय खान विनियम, 1961 के अन्तर्गत)

(Under the Metalliferous Mines Regulations, 1961)

श्री गुडप्पा एम

सुपुत्र

मनसिंहराव

जिनकी जन्म तिथि

01. 06. 1977

है, को विहित अर्हताएं एवं अनुभव

प्राप्त करने का सन्तोषजनक प्रमाण प्रस्तुत करने एवं सितम्बर, 2011 में आयोजित विहित परीक्षा में उत्तीर्ण होने पर एतद्वारा केवल ओपेनकास्ट धात्विकीय खान के लिए फोरमैन प्रमाण-पत्र प्रदान किया जाता है। यह प्रमाण-पत्र दिनांक 09.04.2012 से प्रभावी है।

Shri Gundappa M

born on 01 st June, 1977

son of Manasingrao

having given satisfactory evidence of

possessing the prescribed qualifications and experience and having passed the examination held in September, 2011 is hereby granted MINE FOREMAN'S CERTIFICATE OF COMPETENCY for metalliferous mine having opencast workings only. This certificate is effective from 09.04.2012

*T.M. SHIVAKUMAR*

सचिव

खनन परीक्षा बोर्ड

Secretary  
Board of Mining  
Examinations

*S. M.*

अध्यक्ष

खनन परीक्षा बोर्ड

Chairman  
Board of Mining  
Examinations

TRUE COPY OF THE ORIGINAL  
ATTTESTED BY ME

*Shivakumar*  
(T.M. SHIVAKUMAR)  
ADVOCATE & NOTARY  
Sandur Taluk Revenue Area

Signed and Sealed  
Date 14.11.2012



To

Home Address

Village Sandur  
 PO Sandur  
 Police Station Sandur  
 District Bellary,  
 State Karnataka

प्रमाणित किया जाता है कि उनकी सक्षम चिकित्सा अधिकारी द्वारा स्वास्थ्य परीक्षा कर खान में कार्य करने के लिए स्वस्थ घोषित किया जाता है।

Certified that he has been examined by qualified medical officer and declared fit for employment in mines.

.....  
 examined by qualified Medical Officer  
 On 25.04.2017 and declared fit for  
 employment in mine. This Certificate is  
 valid upto 24.04.2022  
 (FIT FOR OPENCAST ONLY)

1 \_\_\_\_\_ को  
 On \_\_\_\_\_  
 examined by qualified Medical Officer  
 On 25.04.2017 and declared fit for  
 employment in mine. This Certificate is  
 valid upto 24.04.2022  
 (FIT FOR OPENCAST ONLY)

5 \_\_\_\_\_ को  
 On \_\_\_\_\_  
 Director of Mines Safety, Bellary

7 \_\_\_\_\_ को  
 On \_\_\_\_\_

9 \_\_\_\_\_ को  
 On \_\_\_\_\_

2 \_\_\_\_\_ को  
 On \_\_\_\_\_

4 \_\_\_\_\_ को  
 On \_\_\_\_\_

6 \_\_\_\_\_ को  
 On \_\_\_\_\_

8 \_\_\_\_\_ को  
 On \_\_\_\_\_

10 \_\_\_\_\_ को  
 On \_\_\_\_\_

TRUE COPY OF THE ORIGINAL  
 ATTESTED BY ME

(T.M. SHIVAKUMAR)  
 ADVOCATE & NOTARY  
 Sandur Taluk Revenue Area

Prepared by Shivakumar

Checked by Mritunjay

**ANNEXURE 7**

**MINING MATE'S**

**CERTIFICATE**

Cert No. MR 202/0003



भारत सरकार / Government of India  
खान अधिनियम, 1952 / Mines Act, 1952  
खनन परीक्षा बोर्ड / Board of Mining Examinations  
खनन मेट सक्षमता प्रमाण-पत्र

5094



MINING MATE'S CERTIFICATE OF COMPETENCY

(केवल ओपेनकास्ट खानों तक सीमित)

(Restricted to mines having opencast workings only)

(धात्तिकीय खान विनियम, 1961 के अन्तर्गत)

(Under the Metalliferous Mines Regulations, 1961)

श्री

सुपुत्र

है, को अपनी आयु, स्वरूपता,

सदाचार, साक्षरता और धात्तिकीय खानों में काम करने के विहित अनुभव का सन्तोषजनक प्रमाण प्रस्तुत करने  
एवं दिनांक को  
केन्द्र पर आयोजित विहित  
परीक्षा में उत्तीर्ण होने पर एतद्वारा केवल ओपेनकास्ट खानों तक सीमित मेट सक्षमता प्रमाण-पत्र प्रदान किया  
जाता है।

Shri CHANDRASHEKHAPPA KUMBAR

MALLAPPA KUMBAR

born on 01<sup>st</sup> August 1970(seventy)

son of

having given satisfactory evidence of his age,

medical fitness, good character, literacy and prescribed experience of working in metalliferous  
mines and having passed the prescribed examination held at MVTC, HGML, HUTTI

centre on 06-06-2009 is hereby granted MINING MATE'S CERTIFICATE OF  
COMPETENCY restricted to mines having opencast workings only.



बाएं हाथ के अंगुठे का निशान  
Left hand thumb impression

अंचल सचिव  
खनन परीक्षा बोर्ड  
Zonal Secretary  
Board of Mining  
Examinations

Signed and Sealed  
Date



Certified that this is a true copy of the  
original issued as Sl. No 57/18 in Vol. 3  
of my Notary Register. Stamp worth Rs. 100/-  
is filed.

V.K. GEORGE  
ADVOCATE & NOTARY  
ROLL No. K. 1077/94  
SUPEX CORNER  
Nr. TRAINING SCHOOL  
S.R.O.ROAD, KANNUR-2  
MOB: 9447448901

अध्यक्ष  
खनन परीक्षा बोर्ड  
Chairman  
Board of Mining  
Examinations

MR

To CHANDRASEKAPPA  
KUMBAR  
S/O MALLAPPA KUMBAR  
O/O KELASARA  
KUMARASWAMY  
8<sup>TH</sup> WARD, SANDUR:POST  
BELLARY 583119  
KARNATAKA

Home Address

Village BANGARAGUND  
PO HUNAKUNTI  
Police Station MUDDEKHAL  
District BIJAPUR  
State KARNATAKA

प्रमाणित किया जाता है कि उनकी सक्षम चिकित्सा अधिकारी द्वारा स्वारथ परीक्षा कर खान में कार्य करने के लिए स्वरथ घोषित किया जाता है।

Certified that he has been examined by qualified medical officer and declared fit for employment in mines.

13.04.2014

1 On 12.04.2012 को

2 On को

② 13.04.2014

3 On 12.04.2017 वैध तक 15.02.2020

4 On को

5 On को

6 On को

को

8 On को

9 On को

10 On को

Prepared by  
Checked by



V.K. GEORGE  
ADVOCATE & NOTARY  
ROLL No. K 107794  
SUPEX CORNER  
Nr. TRAINING SCHOOL  
S.R.O.ROAD, KANNUR-2  
MOB: 9447448901

**ANNEXURE 8**  
**FORM D**

**THE KERALA MINOR MINERAL CONCESSION RULES , 2015**

**FORM D**

(See clause (a) of Rule 10)

**NOTICE**

1. (a) Name of mine : EVEREST STONE CRUSHR & GRANITES  
(b) Name of minerals : Granite Building Stone  
(c) Situation of mine (Survey Number, Village, Taluk, District, State) : Re-Sy No 4 pt Eruvessi Village, Iritty Taluk Kannur Dist, Kerala  
(d) Date when work was first started : 08 Mar 2018
2. (a) Name and postal address of present owner(s) : K C James, Managing Partner  
Everest Stone Crusher & Granites, MT-89-V, Highway Arcade, Kannur-2  
(b) Name of postal address of agent, if any : NA
3. (a) Name of postal address of manager if any : GUNDAPPA M, S/o Manasingroa  
Sandur Village & PS  
Bellary Dist, Karnataka  
(b) His age : 40  
(c) His qualification : Mine Foreman  
(d) His experience in mining : 5 Years
4. Whether working are likely to be extended below ground : Above ground
5. (a) Maximum depth of open cast excavation measured from highest to it's lowest point : 4 Meters  
(b) Date when depth first exceeded 6 meters : Above ground
6. (a) Nature, amount and kind of explosive used if any : Nitrate Mixture (2.0) - 25Kg  
Electric Detonators (6.3)- 100 Nos  
(b) Date when explosive were first used : 08 Mar 2018

Date: 08/03/2018

Signature of Owner/Agent/Manager

**Managing Partner**

To be sent to :-

1. The Deputy Director General, Directorate General of Mine Safety, Southern Zone, Bangalore-560 029
2. The Regional Controller of Mine, Yeshwantpur, Bengaluru-560022
3. The District Magistrate of Kannur, Kerala-670 002
4. The District Geologist, Kannur, Kerala-670 002

**ANNEXURE 9**

**CORPORATE SOCIAL  
RESPONSIBILITY**

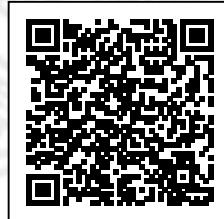


## CHIEF MINISTER'S DISTRESS RELIEF FUND KERALA

### **B No :**

Received with thanks the sum of ₹. 100000.00/- (Rupees One Lakh only) from REENA ENGINEERS AND CONTRACTORS PVT LTD as donation towards '**Chief Minister's Distress Relief Fund**'.

Contribution to CMDRF is **100% tax** exempt under Section 80G(2) of the Income Tax Act,1961 vide **PAN No. AAAGD0584M**.



**Principal Secretary(Finance)  
Treasurer  
Chief Minister's Distress Relief Fund**

Thiruvananthapuram  
27-09-2018

**ANNEXURE 10**

**MONITORING REPORT**



# POLUCHEM LABORATORIES (P) LTD.

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

PALLATH BUILDING, N. KALAMASSERY P. O., ERNAKULAM - 683104

Phone : 0484-2544030, 8281982322, 9747400085, 9747400089, [www.poluchem.com](http://www.poluchem.com), [poluchem@gmail.com](mailto:poluchem@gmail.com)

ACCREDITED BY KSPCB AS "A" GRADE LABORATORY

## TEST REPORT

Page 01 of 01

Client Name & Address	Certificate No:	PL/AMB/RT/6076/2019
Mr.K.C.James Everest Stone & Granites Highway Arcade Kannur	Date of issue:	13/05/2019
	Date of monitoring	06/05/2019 10.00 Hrs to 07/05/2019 10.00 Hrs
	Date of sample received:	08/05/2019
	Date of analysis	09/05/2019
	Monitoring Location	Quarry owned by Everest Stone & Granites Survey No.4 (p) Taluk : Thaliparambu Village : Eruvessi District : Kannur, Kerala
	Sample description	Ambient air -Near East side boundary
	Sample code given by client	Nil

SL NO	PARAMETERS	TEST METHOD	RESULTS	Limit as per NAAQS
01	Particulate Matter (PM <sub>10</sub> )	IS 5182 Part 23 2006RA2012	51.3 µg/m <sup>3</sup>	100 µg/m <sup>3</sup>
02	Particulate Matter (PM <sub>2.5</sub> )	CPCB	30.1 µg/m <sup>3</sup>	60 µg/m <sup>3</sup>
03	Sulphur dioxide	IS 5182 Part 2 2001 RA 2017	8.5 µg/m <sup>3</sup>	80 µg/m <sup>3</sup>
04	Nitrogen dioxide	IS 5182 Part 06 2006 RA2017	7.6 µg/m <sup>3</sup>	80 µg/m <sup>3</sup>

Note: NAAQS-National Ambient Air Quality Standards

\* End of the Report\*

The results are related only to the sample collected for analysis. This certificate shall not be reproduced except in full and without the written permission with authorized signatory

For and on behalf of  
**POLYCHEM LABORATORIES (P) LTD**

**AUTHORIZED SIGNATORY**

SREEJA RAMESH  
QUALITY MANAGER  
POLICHEM LABORATORIES (P) LTD.



# POLUCHEM LABORATORIES (P) LTD.

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

PALLATH BUILDING, N. KALAMASSERY P. O., ERNAKULAM - 683104

Phone : 0484-2544030, 8281982322, 9747400085, 9747400089, www.poluchem.com, poluchem@gmail.com

ACCREDITED BY KSPCB AS "A" GRADE LABORATORY

## TEST REPORT

Page 01 of 01

Client Name & Address	Certificate No:	PL/RT/SD/6077/2019
Mr.K.C.James Everest Stone & Granites Highway Arcade Kannur	Date of issue:	13/05/2019
	Date of monitoring	06/05/2019 10.00 Hrs to 07/05/2019 10.00 Hrs
	Monitoring Location	Quarry owned by Everest Stone & Granites Survey No.4 (p) Taluk : Thaliparambu Village : Eruvessi District : Kannur, Kerala
	Sample Description	Ambient Sound Level (L <sub>eq</sub> )
Monitoring Location	Time	Results
East side boundary	10.00 Hrs	49.7 dB (A)
	11.00 Hrs	48.5 dB (A)
	12.00 Hrs	46.3 dB (A)
	13.00 Hrs	45.3 dB (A)
	14.00 Hrs	44.2 dB (A)
	15.00 Hrs	40.1 dB (A)
	16.00 Hrs	39.8 dB (A)
	17.00 Hrs	38.5 dB (A)
	18.00 Hrs	35.2 dB (A)
	19.00 Hrs	34.6 dB (A)
	20.00 Hrs	33.6 dB (A)
	21.00 Hrs	34.5 dB (A)
	22.00 Hrs	36.5 dB (A)
	23.00 Hrs	38.4 dB (A)
	00.00 Hrs	39.4 dB (A)
	01.00 Hrs	38.6 dB (A)
	02.00 Hrs	37.4 dB (A)
	03.00 Hrs	39.8 dB (A)
	04.00 Hrs	41.2 dB (A)
	05.00 Hrs	42.3 dB (A)
	06.00 Hrs	43.6 dB (A)
	07.00 Hrs	44.5 dB (A)
	08.00 Hrs	46.2 dB (A)
	09.00 Hrs	48.7 dB (A)
L <sub>eq</sub> (Day time)		48.3 dB (A)
L <sub>eq</sub> (Night time)		34.4 dB (A)

\*End of the Report \*

For Poluchem Laboratories (P) Ltd.

Authorized Signatory

SREEJA RAMESH

QUALITY MANAGER

POLUCHEM LABORATORIES (P) LTD.



# POLUCHEM LABORATORIES (P) LTD.

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

PALLATH BUILDING, N. KALAMASSERY P. O., ERNAKULAM - 683104

Phone : 0484-2544030, 8281982322, 9747400085, 9747400089, www.poluchem.com, poluchem@gmail.com

ACCREDITED BY KSPCB AS "A" GRADE LABORATORY

## TEST REPORT

Page 01 of 02

Ref.No. PL/RT/OW/6078/2019

Date of Issue: 13/05/2019

Name & address of customer

: Mr.K.C.James  
Everest Stone & Granites  
Highway Arcade  
Kannur

Project Site

: Quarry owned by Everest Stone & Granites  
Survey No.4 (p)  
Taluk : Thaliparambu  
Village : Eruvessi  
District : Kannur, Kerala

Sample drawn by

: Poluchem Laboratory Sample Collector

Sample description

: Drinking Water

Location of sampling

: Borewell water

Date of sample collected

: 08/05/2019

Date of analysis started

: 09/05/2019

Date of completion of analysis

: 13/05/2019

Parameters tested	Test method	Results	Acceptable Limit As Per IS 10500-2012
Color	IS 3025 (P) 04 – 1983 RA2017	4 Hazen Unit	5 Hazen Unit
Odour	IS 3025 (P) 05 – 1983 RA2017	Agreeable	Agreeable
Turbidity	IS 3025 (P) 10 – 1984 RA2017	BDL	1 NTU
pH	IS 3025 (P) 11 – 1983 RA 2017	6.54	6.5 – 8.5
Total Dissolved Solids	IS 3025 (P) 16 – 1984 RA2017	70 mg/l	500 mg/l
Total Hardness as CaCO <sub>3</sub>	IS 3025 (P) 21 – 1983 RA2014	20.6 mg/l	200 mg/l
Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (P) 23 – 1986 RA2014	19.6 mg/l	200 mg/l
Residual Chlorine	IS 3025 (P) 26 – 1986 RA2014	BDL	0.2 mg/l
Chloride as Cl <sup>-</sup>	IS 3025 (P) 32 – 1988 RA2014	16.3 mg/l	250 mg/l
Calcium as Ca	IS 3025 (P) 40 – 1991 RA2014	7.14 mg/l	75 mg/l
Magnesium as Mg	IS 3025 (P) 46 – 1994 RA2014	3.12 mg/l	30 mg/l
Total Iron as Fe	IS 3025 (P) 53 – 2003 RA2014	0.13 mg/l	0.3 mg/l
Sulphate as SO <sub>4</sub>	IS 3025 (P) 24 – 1986 RA2009	6.5 mg/l	200 mg/l
Fluoride as F	IS 3025 (P) 60 -2008 RA 2013	BDL	1.0 mg/l

Note : BDL – Below Detection Level

For Poluchem Laboratories (P) Ltd.

Authorized signatory

SREEJA RAMESH  
QUALITY INSPECTOR  
POLUCHEM LABORATORIES (P) LTD.



# POLUCHEM LABORATORIES (P) LTD.

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

PALLATH BUILDING, N. KALAMASSERY P. O., ERNAKULAM - 683104

Phone : 0484-2544030, 8281982322, 9747400085, 9747400089, www.poluchem.com, poluchem@gmail.com

ACCREDITED BY KSPCB AS "A" GRADE LABORATORY

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Continuation of Test Certificate No: 6078/2019

Parameters tested	Test method	Results	Acceptable Limits As per IS-10500-2012
Selenium as Se	IS 3025 (P)56 -2003 RA2014	BDL	0.01 mg/l
Arsenic as As	IS 3025(P) 37- 1988 RA2014	BDL	0.01 mg/l
Copper as Cu	IS 3025(P) 42- 1992 RA2014	BDL	0.05 mg/l
Manganese as Mn	IS 3025(P) 59- 2006 RA2017	BDL	0.1 mg/l
Cadmium as Cd	IS 3025(P) 41- 1992 RA2014	BDL	0.003 mg/l
Chromium as Cr	IS 3025 (P)52 – 2003 RA2014	BDL	0.05 mg/l
Zinc as Zn	IS 3025 (P)49 – 1994 RA2014	BDL	5 mg/l
Mercury as Hg	IS 3025(P) 48 – 1994 RA2014	BDL	0.001 mg/l
Cyanide as CN	IS 3025(P)27-1986 RA2014	BDL	0.05 mg/l
Lead as Pb	IS 3025(P) 47- 1994 RA2014	BDL	0.01 mg/l
Aluminum as Al	IS 3025(P) 55- 2003 RA2014	BDL	0.03 mg/l
Boron as B	IS 3025(P) 57- 2005 RA2017	BDL	0.5 mg/l

Note : BDL,- Below Detection Level

## MICROBIOLOGY ANALYSIS

Parameters tested	Unit	Test method	Results	Acceptable Limit As per IS – 10500-2012
Coliforms	MPN/100ml	IS 1622: 1981 RA 2009	Absent	Absent
E coli	Present or Absent/100ml	IS 1622: 1981 RA 2009	Absent	Absent

For Poluchem Laboratories (P) Ltd.

SREEJA RAMESH  
QUALITY MANAGER  
Authorized signatory

\* End of the report\*

The above results are related only to the sample submitted for analysis. This test report shall not be reproduced except in full, without the written approval of the laboratory.