

# **COMPLIANCE REPORT**

**APRIL 2020 - SEPTEMBER 2020**

**QUARRY PROJECT**

**M/s CHENDAYAD GRANITES PVT LTD**

**Kannur District**

**Kerala**

Dt.14-12-2020

**The Additional Principal Chief Conservator of Forests (C)**  
Ministry of Environment, Forests & Climate Change,  
4<sup>th</sup> Floor, E& F Wing, Kendriya Sadan,  
Koramangala, Bangalore - 560034

Ref :- File No. 45/KNR/2017/ DEIAA

Sub :- Environment Clearance – Quarry project at Trippangottur Village,  
Thalassery Taluk, Kannur District, Kerala – Compliance Report –First half -  
Reg.

Respected Sir,

The Quarry (Building stone) project was accorded Environmental Clearance for 1.5176 Ha. by order No. 45/KNR/2017/ DEIAA dated 02-09-2017 by District Environmental Impact Assessment Authority, Kannur, Kerala. The compliance report of First half (April 2020 – September 2020) to the specific and general conditions of the Environment Clearance order is enclosed.

Thanking you,  
Yours respectfully,



For M/S Chendayad Granites Pvt. Ltd

Copy to:-

1. The Member Secretary  
State Environment Impact Assessment Authority (SEIAA),  
Thiruvananthapuram, Kerala.

2. DEIAA, Kannur, or RDO

Encl: - As Above

**COMPLIANCE REPORT**

**TO**

**THE CONDITIONS**

**OF**

**ENVIRONMENTAL CLEARANCE ORDER**

**NO: 45/KNR/2017/ DEIAA**

**Dated: 02-09-2017**

*BY*

**DISTRICT ENVIRONMENT IMPACT ASSESSMENT AUTHORITY  
(DEIAA)**

**FOR**

**BUILDING STONE QUARRY  
(MINOR MINERAL MINING) PROJECT**

*AT*

**SURVEY NOS. 275/1A**

**TRIPANGOTTUR VILLAGE, THALASEERY TALUK**

**KANNUR DISTRICT, KERALA**

*BY*

**M/s Chendayad Granites Pvt. Ltd**

**KANNUR DISTRICT**

**KERALA**

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## INTRODUCTION

Quarry project of **M/S Chendayad Granites Pvt. Ltd** is situated at Survey No. 275/1A, Trippangottur Village, Thalassery Taluk, Kannur District, Kerala.

The quarry project was accorded with the Environmental Clearance (EC) by District Environmental Impact Assessment Authority, Kannur on 02-09-2017. As part of general condition No.37 of Environmental Clearance order, half yearly compliance report needs to be submitted by the project proponent. The compliance report of First half to the specific condition, health conditions and general conditions of the Environmental Clearance order for the period of **April 2020 – September 2020** is being submitted.

**COMPLIANCE REPORT**

**(SPECIFIC CONDITIONS)**

**PART A**

**PART - A – SPECIFIC CONDITIONS**

<b>01</b>	<b>A mines manager shall be appointed to control ,direct, manage and supervise the quarrying operations required under the mines Act ,1952</b>	<b>complied</b>
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As per the Mines Act 1952 the project proponent has appointed Mines manager in order to control direct, manage and supervise the quarrying operations. Certificates of Mines engineer were attached as **Annexure No.2** and Form D is attached as **Annexure No 3.**

<b>02</b>	<b>Health and welfare for the persons employed shall be implemented</b>	<b>complied</b>
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The project is keeping a First aid box in the project site. In association with Primary Health Centre of Local Self Government, the project proponent has conducted health check up for the labours. Other facility of housing, food, water and sanitation is provided by the project proponent.

<b>03</b>	<b>Controlled blasting should be practiced and blasting shall be done only during day time. The mitigate measures for control of ground vibration to arrest the fly rocks and boulder should be implemented.</b>	<b>Complied</b>
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The blasting is carrying out in controlled manner by using electric delayed detonators. All blasting activities are carrying out with the stipulated guidelines of explosive department and other concerned agency. No work will be there in the quarry site at Night. The blasting time in the quarry is in from 7 am to 6 pm. The mitigate measures to arrest ground vibration and fly rock is detailed in General condition No 11. The board showing the blasting time is attached as **Plate No. 1**

<b>04</b>	<b>Plantation shall be done which includes a green belt of</b>	<b>Being</b>
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	<b>adequate width around the mining lease area excluding the rocky area, along roads, overburden dumps and non-mineralized area by planting suitable native species in consultation with the local DFO/Agriculture department.</b>	<b>Complied</b>
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The project proponent has planted various saplings in the project site to develop a green belt around the project area. Avenue trees also planted along the road side to minimise the dust emission. The project has taken the suggestion of agricultural department to plant the native species. Photograph of plantation is given in **Plate No. 16**

<b>05</b>	<b>The drains should be regularly de silted and maintained properly check dam and gully checks shall be constructed wherever to required to arrest siltation. De siltation shall be done every year before the onset of monsoon</b>	<b>Being Complied</b>
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To arrest the quarry waste entering in to the public drain and stream, the project has constructed De siltation chambers. These chambers will be de silted during summer season.

<b>06</b>	<b>Fencing shall be maintained properly all around the lease area.</b>	<b>Complied</b>
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The project proponent has constructed barbed metal wire fencing around the lease area. The photograph of the fencing is provided at **Plate No. 15**

<b>07</b>	<b>The CSR need redrafting with inclusion of felt needs of the locality with special emphasize for implementing ground water recharging water recharging techniques in and at the vicinity of the proposed site.</b>	<b>Complied</b>
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The project proponent has redrafted the CSR by including the ground water recharging techniques

<b>08</b>	<b>Appropriates sign boards should be displayed.</b>	<b>Complied</b>
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The appropriate sign boards are installed in the project site. The photographs of the sign boards are attached as **Plate No. 8**

<b>09</b>	<b>The blasting time must be displayed and strictly adhered to.</b>	<b>Complied</b>
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A board containing blasting time is displayed in the project site. The photograph of the Time showing blasting board is attached as **Plate No.1.**

<b>10</b>	<b>Dust suppression mechanism must be in place.</b>	<b>Complied</b>
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In order to reduce the emission of dust in the project site, the project proponent splashes water using the vehicle.

<b>11</b>	<b>A separate small plot to be maintained in the premise to preserve rare and endemic species. If any, listed in the biodiversity assessment etc.</b>	<b>Being Complied</b>
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The project proponent has started to plant various saplings in the project site. The project has demarcated a small plot to preserve the endemic species.

<b>12</b>	<b>The PPV values must be less than 10 mm/sec.</b>	<b>Noted</b>
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The project proponent is using electric delayed detonator for blasting therefore there is no incident of fly rock is happened in the community. The project proponent is also assuring the maximum PPV is under 10 during the time of blasting.

<b>13</b>	<b>The green belt shall be provides around the periphery.</b>	<b>Complied</b>
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The project proponent has provided Green belt around the project area. This will reduce air and noise pollution.

14	<b>Where the height of the bench formed during earlier workings exceeds the maximum each of the excavator engaged for work, such bench height shall be reduced from top to bottom.</b>	<b>Noted</b>
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The extraction of minerals is being progress from top to bottom. The maximum height of all benches will be 5 meters.

15	<b>Loose or hanging rock or mineral boulder on the side wall shall be dressed down before engaging persons for work at the bottom of the bench.</b>	<b>Being Complied</b>
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The project proponent deploys JCB like vehicles to remove the loose or hanging mineral boulders on the side wall. The labours will work on the bottom bench only after clearing such loose minerals form the side wall.

16	<b>Permanent boundary pillars should be fixed by the proponent before commencing quarrying</b>	<b>complied</b>
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The project has fixed permanent boundary pillars to demarcate the mining area before commencing Quarrying. The photograph showing the permanent boundary pillars are attached as **Plate No. 2**.

17	<b>No quarry blasting to be undertaken and sustained till warning time limit expires and /or when continues 48 hours cumulative rainfall exceeds 8 cm and blasting shall be resumed until 24hrs of rain free situation arises in the quarry locality based on the evaluation by the revenue officials.</b>	<b>Noted</b>
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The condition will be complied by the project proponent when such situation arises. No quarry blasting to be undertaken and sustained till warning time limit expires and /or when continues 48 hours cumulative rainfall exceeds 8 cm and blasting shall be resumed until 24hrs

18	<b>All waste dumps and topsoil dumps shall be properly stabilized by using coir mats or bio regeneration. Proper drainage system shall be provides so the water is properly diverted away from the dump slopes with no disturbance to the stability of the slopes.</b>	<b>Being Complied</b>
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The waste dumps and topsoil dumps are staked at a designated area. To stabilise the dump started to plant various grass and shrubs. Proper drainages are being constructed by the project proponent to divert the storm water away from the dump slopes.

19	<b>All dumps slopes shall be sufficiently stabilized by using appropriate species mix of grass .creepers, shrubs &amp; trees. This shall be done in consultation with the forest department and local research institution and experts in stabilization of mine dumps.</b>	<b>Noted</b>
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The overburden and topsoil stacking is progressing, once it is attain its maximum capacity, the project will plant appropriate grass on the dump to prevent sliding and soil erosion.

20	<b>Garland drains of at least 2m width shall be provided all along 7.5 m buffer zone to divert the water from entering the quarrying slopes. These drains shall be cleaned every year before the monsoon season.</b>	<b>Noted</b>
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The project proponent has constructed garland drain to catch the rain water along 7.5 m buffer zone. This can divert the storm water entering the quarrying slopes. The drains are properly de silted every year.

21	<b>The water from the garlands drainage shall directed to the silt settling ponds. The clarified overflow from silt settling ponds shall be directed to a Rain Water Harvesting (RWH) pond before</b>	<b>Being complied</b>
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	<b>releasing the clarified water to the natural watercourse.</b>	
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The project proponent is intending to construct storm water drains in the lower slopes of the project area for effective management of storm water. The water from the garlands drainage will direct to the silt settling ponds. The clarified overflow from silt settling ponds shall be directed to a Rain Water Harvesting (RWH) pond before releasing the clarified water to the natural watercourse.

<b>22</b>	<b>A retaining wall of stone rubbles with wire mesh, of sufficient width and strength (not less than 2m) shall be constructed at the bottom of the slope of the quarry lease area to arrest any likely roll of boulders during heavy rainfall.</b>	<b>Being complied</b>
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A retaining wall of stone rubbles with wire mesh, of sufficient width and strength (not less than 2m) is being constructed at the bottom of the slope of the quarry lease area to arrest any likely roll of boulders during heavy rainfall.

**COMPLIANCE REPORT**

**(GENERAL CONDITIONS)**

**HEALTH**

01	<b>First Aid kit provide in the work site. It shall be periodically maintained properly. Some labourers shall be trained on First Aid.</b>	<b>Complied</b>
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The project proponent is keeping first aid box in the project site. The training on first aid is provided to selected labours. The project proponent has given training for the two labours in the project site to use first aid box. The first aid kit is periodically maintained. Photograph showing First Aid Box is attached as **Plate no.9**

02	<b>Whole some drinking water should be provided.</b>	<b>Complied</b>
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In the project area pure drinking water is available at all time for everyone in the project site.

03	<b>Premises should be maintained as wet to suppress the dust.</b>	<b>complied</b>
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The project proponent splashing water on haulage roads and loading and unloading point to reduce the emission of dust

04	<b>Sanitary type of latrines and urinals should be provided.</b>	<b>Complied</b>
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The project proponent gives importance to the sanitary needs of workers in the project site. So the project proponent has given sanitary type of latrine and urinals to every labour in the project site. The photograph of the sanitary type of latrines and urinals are attached as **Plate No 3**

05	<b>Resting place should be provided for workers.</b>	<b>Complied</b>
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To get proper rest to the labours, the project has arranged adequate rest rooms in the project area. The photograph of the Resting place provided for workers are attached as **Plate No 10**

<b>06</b>	<b>'No Smoking' board should be exhibited according to COTPA Act.</b>	<b>Complied</b>
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The project proponent has displayed No smoking area in the project site. The photograph of the No smoking Board is attached as **Plate No.4**

<b>07</b>	<b>Work should not be done in night.</b>	<b>Complied</b>
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To reduce the inconvenience of community, the quarrying activities are limited to day time only as per KSPCB guidelines. The working time of quarrying is from 7 am to 6 pm.

<b>08</b>	<b>Details of nearest hospitals, shortest route to hospitals and contact no etc. Should be available.</b>	<b>Complied</b>
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Details of nearest hospital, Fire station, Police station, etc are available in the project site. The Photograph of the emergency contact numbers are attached as **Plate No. 5**

<b>09</b>	<b>Approach roads should be maintained properly.</b>	<b>Complied</b>
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To arrest the dust emission and easy transportation, the approach road has been properly maintaining by the project proponent in the project site. The photograph of the approach road is attached as **Plate No. 11.**

**COMPLIANCE REPORT**

**(GENERAL CONDITIONS)**

**PART B**

**PART – B – GENERAL CONDITION**

<b>01</b>	<b>Rain Water Harvesting capacity should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified.</b>	<b>Complied</b>
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**Compliance:**

The project proponent has developed one rain water harvesting pond in the quarry site as Rain Water Harvesting structure. The pond situated at the lowest level of project site. The surface runoff is channelized to the pond through garland drains. The stored rain water is using for gardening & agriculture, wetting of roads, and other domestic purposes.

<b>02</b>	<b>Environment Monitoring Cell (EMC) as agreed under the affidavit filed by the proponent should be formed and made functional.</b>	<b>Complied</b>
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**Compliance:**

The Environmental Monitoring Cell (EMC) was formed with Mr. C G George as head of the monitoring cell. The EMC meetings of the cell convene periodically and evaluate the activities towards the stipulations of Environmental Clearance order. The details of the monitoring cell are given below in **Table No. 1**.

**Table 1 - Environmental Monitoring Cell (EMC)**

<b>Sl. No.</b>	<b>Post</b>	<b>Name</b>
1	Head of monitoring cell	C G George
2	Member	Jovin George
3	Member	Malla Suresh

<b>03</b>	<b>Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, inclusive of approach road and internal roads.</b>	<b>complied</b>
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**Compliance:**

The project proponent has been planting various tree saplings and native species in the project site to enhance the eco – diversity in the industry. Green belt is an important component in the mining sector. To reduce air and noise pollution, the project proponent has planted various avenue trees along either side of the road. There is also natural vegetation including trees, shrubs and climbers are presents in the sides of road and parking area. This will help to reduce air and sound pollution. The photograph of the sapling is attached as **Plate No. 14**. Photograph of plantation in the project site is attached as **Plate No. 16**.

04	<b>Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.</b>	<b>Complied</b>
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**Compliance:**

The installation of solar can reduce the consumption from conventional sources therefore the project proponent has installed solar panels in the project site to use maximum renewable energy to reduce electrical consumption from KSEB.

05	<b>Sprinklers shall be installed and used in the project site to contain dust emissions.</b>	<b>complied</b>
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**Compliance:**

The emission of dust is a major adverse effect of a mining industry. To prevent dust emission project proponent is spraying water on roads during summer season at regular intervals. This help to suppress dust during the time summer season.

06	<b>Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.</b>	<b>Noted</b>
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**Compliance:**

. As part of eco restoration, the project proponent started to plant various saplings within the project area. Eco restoration is in an integral part of mining activity.

The eco restoration and the mine closure plan will be done at the own cost of the project proponent as per the approved mining plan

<b>07</b>	<b>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 EC.</b>	<b>Noted</b>
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**Compliance:**

After closure of the mine, the project proponent is intending to retain 10 percent of total excavated pit as rain water storage area. The remaining area will be reclaimed with stacked dumping of overburden and top soil. As part of its eco – restoration plan, the project will plant indigenous plant species that are eco – friendly on the reclaimed area.

<b>08</b>	<b>Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented.</b>	<b>complied</b>
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**Compliance:**

The project proponent has carrying out many activities for social integration and community development. The activities under Corporate Social Responsibility (CSR)/ Corporate Environmental Responsibility (CER) activities are executed in the sector of Health, Housing. The project proponent is intending to carry out more activities under CSR for inclusive growth in the community. The details of CSR provided in the period of second half is mentioned in **Table No. 2**. The receipts of the CSR activity are provided at **Annexure No.1**.

**Table No.2 – CSR/CER Details**

<b>Sectors</b>	<b>Activities</b>	<b>Beneficiaries</b>	<b>Amount spent in Rs.</b>
<b>Health</b>	Medical Aid	vadakkepoilur pattuvayil nidhin lal	25000
<b>Infrastructure</b>		Sivaraman, Amari ayyath house ,27TH	75000

Development		Mile, Poolakutty	
		Kelappan Theyyadi narikode	25000
		rajeesh mottammel cheruparamba thoovakkunnu	5000
		muneer alachery	2400
<b>Social</b>	Donation	karshaka raksha yathra	1000
	Donation	kunjanan kunnothuparamba	8774
	Donation	snehabhavan arayangad	16800
<b>Total</b>			<b>158974</b>

<b>09</b>	<b>The lease area shall be fenced off with barbed wires to a maximum 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.</b>	<b>Complied</b>
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**Compliance:**

To demarcate the lease area, the project proponent has installed fencing around the area where lease obtained. The complete installation of barbed metal wire fencing around the mining area is with height of 4 ft. All the boundary indicators (boards, stores, markings etc) will be protected at all times and shall be conspicuous. The photograph of the fencing is provided at **Plate No. 15**.

<b>10</b>	<b>Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.</b>	<b>Complied</b>
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**Compliance:**

The alarm can intimate the general public and labours that the blasting is going to happen. As per the stipulation of Explosive department and State Environment Impact Assessment Authority the project proponent has installed warning alarms in the quarry site. This is properly working prior to the blasting time. The photograph of the warning alarms are attached as **Plate No. 6**

<b>11</b>	<b>Control measures on noise and vibration prescribed by KSPCB should be implemented.</b>	<b>Complied</b>
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**Compliance:**

To reduce noise level in the project site, the project proponent has implemented mitigate masseurs. The major noise generating sources from the mining activity is working machineries, drilling, blasting and plying of vehicles. The following control measures are undertaken to bringing down the noise levels:-

- Proper maintenance of machinery and equipments
- The machineries like breaker and excavator has well sound proof cabin so that the machine operators can work without stress due to the sound.
- Personal protective devices i.e., ear plugs are provided to workers working in high noise areas.
- The mining activity held in day time only.
- Noise level at quarry site checked periodically.

***Blast vibrations and control measures***

- ❖ Controlled blasting technique is adopted in this project in order to reduce blast vibrations.
- ❖ Ordinary detonators are using for the blasting
- ❖ The maximum charge per delay is not more than 10kg to limit the PPV values to 10mm/sec.
- ❖ Optimum delay sequence and stem to column ratio is maintaining to minimize the ground vibration intensity.

<b>12</b>	<b>Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.</b>	<b>Complied</b>
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**Compliance:**

Quarrying activities are limited to day time only as per KSPCB guidelines. This will help to limit the sound pollution. The quarry working time is 7 am to 6.00 pm. This will help to limit the sound pollution

13	<b>Blasting should be done in a controlled manner as specified by the regulations of explosives department or any other concerned agency.</b>	<b>complied</b>
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**Compliance:**

The blasting is done in controlled manner by using ordinary delayed detonators. All blasting activities are carrying out with the specified regulations of explosive department. All blasting are under careful supervision of qualified persons. The blasting time is fixed at 9.00 am-10.30 am, 2.00 pm- 3.00 pm and 4.00 pm to 5.30 pm. The photograph of th e Time showing blasting board is attached as **Plate No. 1**.

14	<b>A licensed person should supervise/control the blasting operations.</b>	<b>Complied</b>
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**Compliance:**

The project proponent has appointed mines manager and foreman in the site to supervise/control exploitation of minor minerals including blasting at the project site. **Annexure No. 2** is showing the certificate of qualified person. The **Annexure No. 3** Shows the Form D.

15	<b>Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.</b>	<b>Being Complied</b>
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**Compliance:**

To contain dust emissions and for the trouble free transportation of materials, the project proponent is maintaining the access road from the entrance of project site to quarry in good manner. The project proponent splashes water on the road to arrest the dust production during summer season. The Photograph of Access Road is attached as **Plate No. 11**.

16	<b>Overburden materials should be managed within the site and used for reclamation of mine pits as per mine closure plan/ specific conditions.</b>	<b>complied</b>
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**Compliance:**

In a building stone quarry project, the overburden and topsoil need to extract during the time of mining, these natural resources are staked in the project site. This will be used for plantation, haulage roads and land filling in the mining area. No overburden will let out from the project site. To prevent soil erosion grass is planted on the overburden and topsoil. OB is attached as **Plate No. 12.**

17	<b>Height of the benches should not exceed 5m, and width should not be less than 5m, if there is no mention is the mining plan/specific conditions.</b>	<b>Being complied</b>
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**Compliance:**

The quarrying has been carrying out as per mining plan. To enhance safety and conserve environment, the project proponent is extracting the minerals by creating benches. The benches will not exceed 5 meters of height. The project maintains the width of benches minimum of 5 meters. The photograph of the benches are Provided in **Plate No. 13.**

18	<b>Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.</b>	<b>Noted</b>
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**Compliance:**

The project proponent ordinary/electric delayed detonator for blasting therefore there is no issue with fly rock in the community. The project proponent is also assuring that the maximum PPV is under 10 during the time of blasting. The project proponent is yet to incorporate mats while blasting is happening.

19	<b>Maximum depth of mining from general ground level at site shall not exceed 10m.</b>	<b>Noted</b>
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**Compliance:**

Mining depth will not exceed beyond 10 meter or not below the level of the nearest stream bed, whichever is less. The instruction regarding to this has given to the mines manager.

20	<b>No mining operations should be carried out at places having a slope greater than 45°.</b>	<b>Noted</b>
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**Compliance:**

There is no area seen with slope greater than 45° high in the E C obtained area. The project proponent is extracting building stone in the area where Environment Clearance and Lease is obtained.

21	<b>Acoustic enclosures should be 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.</b>	<b>Noted</b>
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**Compliance:**

To reduce sound amplification, the existing generators are enclosed, vegetation around the mining area will help to reduce noise and air pollution. This helps the noise level kept within prescribed standards. The project proponent is trying to enhance the vegetative cover by planting more tree saplings.

22	<b>The workers on the site should be provided with the required protective equipments such as ear muffs, helmet, etc.</b>	<b>Complied</b>
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**Compliance:**

As part of safety the project proponent has provided adequate Personnel Protective Equipments (PPE) such as helmets, ear plugs, safety belts, gloves, etc. to the labours in working site.

23	<b>Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.</b>	<b>Noted</b>
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**Compliance:**

The project proponent ensured that all storm water from the mining area is flowing in to the pond created at mining area. The project proponent has created

garland drains in the lower slopes. The project proponent will create garland drains where it is necessary in the project area for the effective storm water management.

24	<b>The transportation of minerals should be done in covered trucks to contain dust emissions.</b>	<b>complied</b>
----	---	-----------------

**Compliance:**

To avoid dust emission while transportation of materials, the project proponent assured the trucks were covered before it leaving the project site

25	<b>The proponent should plant trees at least 5 times of the loss that has occurred while clearing the land for the project.</b>	<b>Being complied</b>
----	---	-----------------------

**Compliance:**

As part of concurrent eco restoration, the project proponent has been planting various saplings in the project area as a compensation of loss of trees while clearing the land for mining.

26	<b>Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations.</b>	<b>Noted</b>
----	---	--------------

**Compliance:**

The volume of used oil is low in the industry, a major portion of used oil is using as lubricant in the project site. The execs have been giving to agencies approved by Pollution Control board.

27	<b>Explosives should be stored in magazines in isolated place specified and approved by the explosives department.</b>	<b>Complied</b>
----	--	-----------------

**Compliance:**

Explosives are stored in magazine. The magazine situated in an isolated place specified and approved by the explosives department. The area surrounded to the magazine was fenced with barbed metal wire.

28	<b>A minimum buffer distance of 100m meter from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided.</b>	<b>Complied</b>
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**Compliance:**

The norms of Kerala State Pollution Control Board regarding the distance criteria of residences, roads, rivers and worship places is adhered by the project. The project has left a minimum buffer distance of 100 meter distance to the nearest house from the boundary of mining area, the KSPCB condition is 50 meter.

29	<b>100 m buffer distance should be maintained from forest boundaries.</b>	<b>Noted</b>
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**Compliance:**

The project proponent is maintaining a minimum of 100 meter buffer distance from forest boundaries.

30	<b>Consent from Kerala Pollution Control Board under Water and Air Act(s) should have been obtained before initiating activity.</b>	<b>Complied</b>
----	---	-----------------

**Compliance:**

The project proponent has obtained consent from KSPCB under Water and Air Act(s). The copy of certificate of “*Consent to Operate*” (Renewal) from Kerala State Pollution Control Board is provided in **Annexure No. 4**.

31	<b>All other statutory clearances should have been obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.</b>	<b>Complied</b>
----	--	-----------------

**Compliance:**

The certificates obtained from concerned statutory authorities are enclosed in **Annexure No.4, 5, 6, 7 & 8**. The details are given in **Table No 3**

**TABLE 3 – APPROVALS FROM COMPETENT AUTHORITIES**

<b>Name of the Statutory approval</b>	<b>Name of the Statutory authority</b>
"Consent to Operate"	Kerala State Pollution Control Board
Environmental Clearance order	State Environmental Impact Assessment Authority, Kerala
Explosive License	Ministry of Commerce & Industry – Petroleum & Explosives Safety Organization (PESO)
License for quarry operations	Gram Panchayath
Permit order	Directorate of Mining and Geology

<b>32</b>	<b>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 project would require a fresh appraisal by this Authority, for which the proponent shall apply and get the approval of this Authority.</b>	<b>Noted</b>
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**Compliance:**

The project is running as per plan submitted in Environmental Impact Assessment Authority, Kerala. At present there is no change in the scope of the project. The project proponent will seek for a new Environmental clearance in the case of any change(s) in the scope of the project.

<b>33</b>	<b>The Authority reserves the right to add additional safe guard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.</b>	<b>Noted</b>
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**Compliance:**

If the Authority insists to add additional safeguards and measures in the mining industry for safety and environmental sustainability, the project proponent will be complied with.

34	<b>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.</b>	<b>Noted</b>
----	--	--------------

**Compliance:**

The stipulated orders and directions under different act and notification including EIA notification will be scrupulously followed. A brief list of various Acts and notifications which are followed by the proponent is given below

1. **The Environment Protection Act,1986**
2. **Water (Prevention and Control of Pollution) Act, 1974**
3. **The Air (Prevention and Control of Pollution) Act, 1981**
4. **The Public Liability (Insurance) Act,1991**
5. **Municipal Solid Waste (Management and Handling) Act,2016**
6. **Hazardous and Other Wastes (Management and handling) Rules, 2016.**
7. **EIA notification, 2006**

35	<b>The project proponent should advertise in at least two local news papers widely circulated in the region, one which (both 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 Department of Environment and Climate Change, Govt. of Kerala 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</b>	<b>Complied</b>
----	---	-----------------

	<b>letter and the copy of the same signed in all pages should be forwarded to the office of this authority as confirmation.</b>	
--	---	--

**Compliance:**

An advertisement in two local newspapers regarding Environmental Clearance accorded to the quarry project was given within the stipulated period and the copy of the same was submitted at SEIAA Kerala. . The copy of the advertisement given in two local newspapers is provided at **Annexure No.9**. The details of the news papers are given in the **Table No.4**.

**Table No.4- Details of advertisement in news papers**

Sl. No.	News paper	Language	Date of edition
1	Deepika	Malayalam	02-10-2017
2	The Hindu	English	07-10-2017

<b>36</b>	<b>A copy of the clearance letter shall be sent by the proponent to concerned Grama/District Panchayath / 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.</b>	<b>Complied</b>
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**Compliance:**

A copy of the Environment Clearance letter was submitted to the Panchayath Office. The project proponent did not receive any suggestions / representation from anywhere while the processing the proposal therefore did not give the copy of clearance letter to anyone. The Acknowledgement of the clearance letter sent to the panchayth is attached as **Annexure No. 10**

<b>37</b>	<b>The proponent shall submit six monthly 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</b>	<b>Complied</b>
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	<b>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.</b>	
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**Compliance:**

The compliance report is being submitted to the District Environmental Impact assessment Authority, Kannur, State Environmental Impact assessment Authority, Kerala and the Regional Office of MoEF&CC, Bangalore as mail. The results of Monitored data is attached as **Annexure No. 11, 12 & 13**

<b>38</b>	<b>The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3ft 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.</b>	<b>Complied</b>
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**Compliance:**

As per the stipulation provided in Environmental Clearance order, the details of the Environmental Clearance are displayed on metallic board in the project site. The metallic board as specified in the conditions of Environmental Clearance order. Sign board with extant of lease area and boundaries are depicted at the entrance of the quarry and it can be visible to the public. **Plate No. 7** is the photograph of the Metallic board.

<b>39</b>	<b>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.</b>	<b>Complied</b>
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**Compliance:**

An assurance in the form of affidavit was already submitted to DEIAA, Kannur.

40	<b>No change in mining technology and scope of working should be made without prior approval of the SEIAA, No further expansion or modification in the mine shall be carried out without prior approval of the SEIAA, as applicable.</b>	<b>Noted</b>
----	--	--------------

**Compliance:**

The project proponent is not intending to expand the area of mine, technology and scope of working. The project proponent will appear DEIAA, Kannur for Environment Clearance if the project proponent wants to expand its scope. The mining is progressing as per submitted plan.

41	<b>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.</b>	<b>Noted</b>
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**Compliance:**

There is no such natural water course or thodu is flowing along the project site. The project proponent will ensure the natural runoff of storm water. No stream is originating from the lease area.

42	<b>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 un loading points &amp; transfer point to reduce fugitive emissions.</b>	<b>Complied</b>
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**Compliance:**

The project proponent has monitored the ambient air quality as per National Ambient Air quality Standard (NAAQS). The project proponent is intending to increase the splashing of water and installed sprinklers at loading, unloading and transfer points. This activity can reduce the fugitive emission.

43	<p><b>The top soil, if any, shall be 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 staked 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<sup>0</sup>. 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 bump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.</b></p>	Noted
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**Compliance:**

The natural resources like top soil and overburden is being stacked in a designated place within the project site. Only topsoil will be used for plantation. Overburden will be used for landfill and to construct haulage roads in the mining area. The excess will be stored in a designated place.

44	<p><b>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 de silted particularly after monsoon and maintained properly.</b></p>	Being complied
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**Compliance:**

The project proponent is intending to construct effective garland drains to catch all the storm water during the time of monsoon season. These channels will direct the water to the rain water collection pond. All sediments and silts will settle at the bottom of the pond and only cleared water will let out.

45	<b>Effective safeguard measures such as regular water sprinkling shall be carries 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 an un loading points and transfer points – it shall be ensured that the Ambient Air Quality Parameters confirm to the norm prescribed by the Central Pollution Control Board in this regard.</b>	<b>complied</b>
----	--	-----------------

**Compliance:**

The project proponent is regularly spraying water in critical areas prone to air pollution with the help of vehicle and sprinklers. The project proponent has initiated steps to install sprinklers in critical areas to reduce the dust emission such as loading and unloading points, haul roads and transfer points. The water spraying has been carried out regularly to arrest the dust emission. The vehicle for water spraying is properly marinated.

46	<b>Fugitive dust emission from all the sources should be controlled regularly. Water spraying arrangements on haul roads, loading and unloading and at transfer point should be provided and properly maintained.</b>	<b>complied</b>
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**Compliance:**

The project proponent splashes water in critical area to reduce the dust emission such as loading and unloading points, haul roads and transfer points. The sprinklers and vehicle for water spraying are properly maintained.

47	<b>Measures should be taken for control of noise levels below 85 dBA in the work environment.</b>	<b>complied</b>
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**Compliance:**

The main sound generating activities are the playing of jack hammer, breaker, vehicles and blasting operations. The level noise from all these activities will not go beyond 85dBA. The project proponent will take appropriate action to reduce the sound by employing possible measures. These are mentioned under the condition number 11.

48	<b>A separate Environmental Management Cell with suitable qualified personal should be set up under the control of a senior executive, who will report directly to the Head of the Organization.</b>	<b>complied</b>
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**Compliance:**

To monitor all conditions stipulated in the Environment Clearance and environment Management Plan, the project proponent constitutes an Environment Monitoring Cell with Mr. C.G George as the head of the Cell.

49	<b>The funds earmarked for environmental protection and CSR activities 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.</b>	<b>Being complied</b>
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**Compliance:**

The project proponent executes many activities under Corporate Social Responsibility (CSR) for community development. To implement these activities in a good manner, the project proponent will open an account for keeping the funds earmarked for environmental protection and CSR.

50	<b>The Regional Office of MoEF &amp;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.</b>	<b>Noted</b>
----	--	--------------

**Compliance:**

The project proponent will extent all possible cooperation to the officers from regional office of MoEF & CC and can produce all data/information/reports when they are asking for.

51	<b>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.</b>	<b>Noted</b>
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52	<b>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.</b>	<b>Noted</b>
----	---	--------------

53	<b>The SEIAA may revoke or suspend the order, for non implementation of any of the specific or this implementation of any 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.</b>	<b>Noted</b>
----	---	--------------

**Compliance:**

The project proponent is willing to implement the conditions stipulated in the Environment Clearance order. The project proponent can execute all possible measures in the project site for the conservation of environment.

54	<b>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.</b>	<b>Noted</b>
----	--	--------------

**Compliance:**

The project proponent will give priority to the conditions stipulated in the Environment clearance Order for its execution.

55	<b>This order is valid for a period of 5 years or the expiry date of mine lease period issued by the Govt. of Kerala, whichever is earlier.</b>	<b>Noted</b>
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56	<b>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.</b>	<b>Noted</b>
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57	<b>The mining operation shall be restricted to above ground water table and is should not intersect ground water table.</b>	<b>Noted</b>
----	---	--------------

**Compliance:**

The project proponent will restrict its mining operations above the ground water table.

58	<b>All vehicle used for transportation and within the mine shall have “PUC” certificate from authorized pollution taking center. Washing of all vehicles shall be inside the lease area.</b>	<b>complied</b>
----	--	-----------------

**Compliance:**

As part of reduce air pollution, the project proponent is monitoring the pollution level of all vehicles playing in the project site. This monitoring conducts only in authorized pollution testing center.

59	<b>Project proponent should obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and ground water for the project.</b>	<b>Noted</b>
----	---	--------------

**Compliance:**

At present, the need of prior approval is not necessary to draw ground water and surface water for the project.

60	<b>Regular monitoring of flow rates and water quality upstream and down streams of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly report to SEIAA.</b>	<b>Noted</b>
----	--	--------------

**Compliance:**

There is no stream or springs flowing in and around to the mine lease area. The project proponent will install de-siltation trap and other mechanism to prevent sediments and wastes from the mining area to the public drainage system.

61	<b>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.</b>	<b>Being complied</b>
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**Compliance:**

The project proponent has initiated to start an occupational health surveillance programme for the labours working in mining area in association with Primary Health center.

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# PLATES

**Plate No. 1**



Board showing blasting time

**Plate No. 2**



Boundary Pillars

Plate No. 3



Sanitary Latrine and Urinals

Plate No. 4



No Smoking Board

Plate No. 5



Emergency Contact Numbers

Plate No. 6



Warning Alarms

Plate No. 7



Metallic Board

Plate No. 8





Sign Boards

Plate No. 9



First Aid Box

**Plate No. 10**



**Resting Room**

**Plate No. 11**



**Access Road**

**Plate No. 12**



**Overburden**

**Plate No. 13**



**Mining Area**

**Plate No. 14**



**Eco restoration**

**Plate No. 15**



**Fencing**  
**Plate No. 16**






**Plantation**

# ANNEXURE



## Annexure No.2

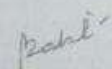




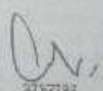
Cert No. FRE / 3828

भारत सरकार/Government of India  
 खान अधिनियम, 1952/Mines Act, 1952  
 खनन परीक्षा बोर्ड/Board of Mining Examinations  
 फोरमैन सक्षमता प्रमाण-पत्र  
**FOREMAN'S CERTIFICATE OF COMPETENCY**  
 (केवल ओपनकास्ट खानों तक सीमित)  
 (Restricted to mines having opencast working only)  
 (धात्विकीय खान विनियम, 1961 के अन्तर्गत)  
 (Under the Metalliferous Mines Regulations, 1961)

श्री मल्ला सुरेश सुपुत्र मल्ला सुरी अप्पाराव  
 जिनको जन्म तिथि 12.07.1993 है, को विहित अर्हताएं एवं अनुभव प्राप्त करने का सन्तोषजनक प्रमाण प्रस्तुत करने पर एतद्वारा केवल ओपनकास्ट धात्विकीय खानों के लिए फोरमैन सक्षमता प्रमाण-पत्र प्रदान किया जाता है। यह प्रमाण-पत्र दिनांक 06.05.2016 से प्रभावी है।

Shri Mallala Suresh son of Mallala Suri Apparao  
 born on 12<sup>th</sup> July, 1993 having given satisfactory evidence of possessing the prescribed qualifications and experience is hereby granted FORMAN'S CERTIFICATE OF COMPETENCY for metalliferous mine having opencast workings only. This certificate is effective from 06.05.2016

  
 सचिव  
 खनन परीक्षा बोर्ड  
 Secretary  
 Board of Mining  
 Examinations

  
 अध्यक्ष  
 खनन परीक्षा बोर्ड  
 Chairman  
 Board of Mining  
 Examinations

Signed and Sealed  
 Date 09.09.16

Certificate of licensed Person

## Annexure No.3

**FORM D**  
[See clause (a) of rule 10 and clause (m) of sub-rule (1) of rule 40]

**NOTICE**

24.10.2017

**From:**  
Shri. C G George  
Joint Managing Director  
Chendayad Granites Pvt Ltd  
CP3/C40, KSIDC Industrial Growth centre  
Valiyavalicham, Koothuparamba Mooryad Post, 670643

**To:**

1. The District Magistrate,  
Kannur District,
2. The Regional Controller of Mines,  
Yeswantpur, Bangalore 560022
3. The Deputy Director General, Directorate General of Mine and Safety South Zone,  
#5, 17<sup>th</sup> Main, 100ft. Road, 4<sup>th</sup> B-Block,  
Koramangala, Bangalore- 560 034

1	a. Name of Mine	M/S Chendayad granites pvt ltd Office: Poyilloor, Poyilloor P.O, Kannur Dist - 670 643, Kannur District, Kerala State.
	b. Name of Mineral	Granite Building Stone
	c. Situation of Mine	Location: Poyilloor Village: Thripangom Village Post office: Poyilloor P.O Town: Thalassery, Taluk: Thalassery District: Kannur, State: Kerala State.
	d. Date when work was first started	15.01.2008
2	a) Name & postal address of present owner(s)	Shri. C.G. George, Joint Managing Director Chendayad Granites Pvt Ltd CP3/C40, KSIDC Industrial area Valiyavalicham, Koothuparamba Mooryad Post, 670643
	b) Name & postal address of agents if any	----
3	a. Name & postal address of Mines Manager	<b>Mr. Malla Suresh</b> S/o. Malla Suri Appa Rao, Diploma in Mining Engineering Foreman's Certificate No.FRE/3828 w.e.f 06.05.2016 Valid up to 05.05.2021 <u>Address:</u> Gavarapeta Street, Kasimkota, Visakapatnam - 531031
	b. His age	24 Years
	c. His qualification	<b>Diploma in Mining Engineering</b> Foreman's Certificate No.FRE/3828 w.e.f 06.05.2016 Valid up to 05.05.2021

d.	His experience in Mining	2 years Experience
4	Whether working are likely to be Extended below ground	Yes in future
5	a. Maximum depth of open cast excavation measured from its highest to its lowest point	Above ground 4 meters from its highest to lowest point
	b. Date when depth exceeded 6 meter	Not Yet reached 6meter depth
6	a. Nature, amount and kind of explosives used if any	Nitrate Mixture Class 2 division 0 Class 6 division 1 Class 6 division 3
	b. Date when explosives were first used	27.02.2015

Thanking You,

M/S Chendayad Granites Pvt Ltd

(C.G.George)

Joint Managing Director

Date: 24.10.2017

Form D

## Annexure No.4



## KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/KNR/ICO/814/2008

Date of issue :07/05/2020

## INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No : PCB/KNR/ICO-R/484/2020

Ref : 1. Consent number:O14KANCTOA250074 dated 08/09/2017

2. Application number:12877998 dated 28/02/2020

The ' Integrated Consent to Operate' issued as per reference above to M/s Quarry Owned By Sri.C G George ,Joint Managing Director Chendayad Granites pvt ltd,Poiloor P.O,Via Panoor,Thalassery is hereby renewed up to 30/04/2025 and issued to M/s Quarry Owned By Sri.C G George ,Joint Managing Director Chendayad Granites pvt ltd,Poiloor P.O,Via Panoor,Thalassery The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

## I. GENERAL

S.No.	Items	Description
1	1.1 VALIDITY	30/04/2025
2	1.12 ANNUAL FEE	Rs. 5800/-
3	1.12 FEE REMITTED	Rs. 33030/-
4	1.16 ACTIVITY	Granite quarrying of 1.5176 Ha in RS NO.275/309 of Thrippangottoor Village of Thalassery Taluk

## II. Stack Details

Stack No.	Source of Emission	Emission Rate(Nm <sup>3</sup> /Hr)	Stack Height above		Control Equipment
			Ground Level(In Meters)	Roof Level(In Meters)	

## III. CONDITIONS

2.2 The application of the renewal of the consent is to be made before 28/02/2025.

2.6 If any statement in the affidavit furnished along with the renewal application is found false, the consent issued will be revoked and further prosecution will be launched against the unit.

- 4.2 Permanent fence made of wire mesh shall be provided and maintained along boundary of the approved quarry area.
- 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.
- 4.8 Location of quarry shall be as per the drawing attached .No change or alteration to the above shall be made.
- 4.11 This consent is renewed subject to the Environmental clearance number:19/2017 No 45/KNR/2017/DEIAA dated 02/09/2017 issued by District Environmental Impact Assessment Authority, Kannur
- 4.15 The PM 2.5 in ambient air at the boundary shall not exceed 60µg/m3.
- 4.16 The PM10 in ambient air at the boundary shall not exceed 100µg/m3.
- 4.17. This consent is valid only when the Environmental Clearance is valid.

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

**ANITA KOYAN** Digitally signed by ANITA KOYAN  
Date: 2020.05.08 11:15:19 +05'30'

DATE :17/04/2020

SIGNATURE & SEAL OF ISSUING AUTHORITY  
ENVIRONMENTAL ENGINEER




**To**

C.G. GEORGE, JOINT MANAGING DIRECTOR, CHENDAYAD GRANITES PVT LTD., KSIDC INDUSTRIAL GROWTH CENTRE, VALIYAVELICHAM, KOOHUPARAMBA, KANNUR DT - 670693

- 1. This digitally signed document is legally valid as per the Information Technology Act 2000**
2. For verifying this document please go to [krocmms.nic.in](http://krocmms.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.

## Annexure No.5



सत्यमेव जयते

Validity expires on 01.09.2022

**Proceedings of the District Environment Impact Assessment Authority  
Kannur**

*Present: Sri.Mir Mohammed Ali I.A.S., Chairman; Sri.S. Chandrasekar I.A.S., Member  
Secretary & Sub Collector Thalassery; Sri.Suneel Pamidi.I.F.S., Member and  
Sri. O Jayarajan I.F.S (Rtd) Member*

Sub: DEIAA- Environmental clearance for the Proposed Granite (Building Stone) Quarry project for an area of 1.5176 Ha in Sy. No.275/1A, Trippangottur village ,Thalassery Thaluk, Kannur District of Mr. C. G. George, Joint Managing Director M/S Chendayad Granites Pvt Ltd, CP3/C40, KSIDC Industrial Centre, Valiyavalicham, Koothuparamba, Kannur, Kerala-670643


**DISTRICT ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY, KANNUR**

No. 45/KNR/2017/DEIAA Dated 02/09/2017, Kannur

Ref: 1.Online Application dated 12 May 2017 from Mr. C. G. George, Joint Managing Director M/S Chendayad Granites Pvt Ltd, CP3/C40, KSIDC Industrial Centre, Valiyavalicham, Koothuparamba, Kannur, Kerala-670643  
2. Minutes of the 6<sup>th</sup> meeting of DEAC held on 15/06/2017.  
3. Minutes of the 7<sup>th</sup> meeting of DEAC held on 22/08/2017.  
4. Minutes of the 8<sup>th</sup> meeting of DEIAA held on 29/08/2017.

**ENVIRONMENTAL CLEARANCE NO. 19/2017**

Mr. C. G. George, Joint Managing Director M/S Chendayad Granites Pvt Ltd, CP3/C40, KSIDC Industrial Centre, Valiyavalicham, Koothuparamba, Kannur, Kerala-670643 vide his application received on 12 May 2017, has sought Environmental Clearance under EIA Notification, 2006 for the quarry project of an area of 1.5176 Ha in Sy. No.275/1A, Trippangottur village ,Thalassery Thaluk, Kannur District. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 and as per O.M. No. L-11011/47/2011-IA.II (M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dtd. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares. As per gazette notification no SO 190(E) dtd 20/01/2016, Government of India and GO(Ms)no.05/2016/Envtd Dtd 04/04/2016, Govt:of Kerala DEIAA and DEAC constituted for considering the applications for environmental clearance less than 5 hectares in individual cases and 25 hectares in cluster




Page 1 of 8

Copy of Environmental Clearance

## Annexure No. 6

Amedment Covering Letter Page 1 of 2



**भारत सरकार | Government of India**  
**वाणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industry**  
**पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो) | Petroleum & Explosives Safety Organisation (PESO)**  
**पूर्व नाम- विस्फोटक विभाग | Formerly- Department of Explosives**  
**केन्द्रीय भवन, ब्लाक सी-2, तीसरी मंजिल | Kendriya Bhavan, Block C-2, 3rd Floor**  
**CSEZ पो.ओ.कक्कानाड कोच्ची | CSEZ PO Kakkanad Dist. Ernakulam Ernakulam 682037**  
**फोन (Phone):- 2427286 | फैक्स (Fax):- 2427276**

130 JUL 2019

संख्या (No.): E/SE/KL/22/13(E84556) दिनांक (Date): 29/07/2019

सेवा में | To,

C.G.GEORGE JOINT MANAGING DIRECTOR,  
 CHENDAYAD GRANITES PVT LTD, CP III C 40 KSIDC INDUSTRIAL GROWTH  
 CENTER,VALIYAVELICHAM,KOOTHUPARAMBA, Town/Village - KOOTHUPARAMBA  
 District-KANNUR, State-Kerala, Pincode - 670643

विषय : Survey No.275/1A, ग्राम Trippangottur, जिला KANNUR, राज्य Kerala में मेसर्स C.G.GEORGE JOINT  
 MANAGING DIRECTOR द्वारा विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008  
 के अंतर्गत LE-3 में जारी अनुज्ञप्ति सं E/SE/KL/22/13(E84556) के संशोधन संदर्भ में।  
 (विस्फोटक की मात्रा / मासिक खरीद सीमा में परिवर्तन)

Subject: Possession for Use of of Explosives from magazine situated at Survey No.:275/1A, Trippangottur, Dist.  
 KANNUR, Kerala -Licence No.: E/SE/KL/22/13(E84556) granted in Form LE-3 of Explosives Rules, 2008 -  
 (Amendment of Quantity of Explosives/Monthly Purchase Limit).

महोदय | Sir,

आपका उपर्युक्त विषय पर पत्र संख्या Nil दिनांक 29/07/2019 का संदर्भ ग्रहण करें।  
 Please refer to your letter no. Nil dated 29/07/2019.

अनुज्ञप्ति संख्या E/SE/KL/22/13(E84556) विस्फोटक की मात्रा / मासिक खरीद सीमा में परिवर्तन के संदर्भ में यथा संशोधित  
 कर भेजी जा रही है।  
 The Licence No.: E/SE/KL/22/13(E84556) is forwarded herewith duly amended in respect of followings :  
**Quantity of Explosives/Monthly Purchase Limit**

किसी भी एक समय में लाइसेंस क्षमता निम्नलिखित वर्ग तथा मात्रा से अधिक नहीं होगी।  
 The licence capacity at any one time shall not exceed the kinds and quantities mentioned below ;

संख्या No	विस्फोटक Explosive(s)	वर्ग Class	प्रभाग Div	उप-प्रभाग Sub Div	क्षमता Capacity	इकाई Unit
1	Nitrate Mixture	2	0	0	100	Kg.
2	Safety Fuse	6	1	0	3000	Mtrs
3	Electric and/or Ordinary Detonators	6	3	0	2000	Nos.

किसी एक कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा (अनुच्छेद 3 (ख) और (ग) के अधीन अनुज्ञप्ति के लिए लागू) :  
**30 गुना**  
 Quantity of explosives to be purchased in a calendar month[applicable for licence under article 3(b) and (c)] : **30 times as above.**

यह अनुज्ञप्ति दिनांक 31 मार्च 2024 तक प्रवृत्त रहेगी।

<http://10.0.1.11/IntExp/AmdCoveringLetterHindi.asp?LetterGeneratedYN=Y> 29-07-2019

## Amedment Covering Letter

Page 2 of 2

This Licence shall remain valid till 31st day of March 2024.

आपके खाते में रुपए 400/- की राशि शेष हैं जो इस संदर्भ को उद्धृत करते हुए भविष्य के संव्यवहार में समायोजित की जा सकती है।  
An amount of Rs. 400/- balance is in your credit, which may be utilized for future transaction by quoting this reference.

अनुज्ञप्ति के आगामी नवीकरण हेतु कृपया विस्फोयटक नियम, 2008 के नियम 112 के अंतर्गत प्रक्रिया का पालन करें। कृपया पावती दें।  
For further revalidation(if required), please follow the procedure under Rule 112 of Explosives Rules, 2008. Receipt of this letter may please be acknowledged.

भवदीय | Your's faithfully

(आर.वेणुगोपाल | Dr. R.Venugopal)

उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives

कोच्ची | Ernakulam  
मुख्य विस्फोटक नियंत्रक  
Controller of Explosives  
कोच्ची | Ernakulam

प्रतिलिपि प्रेषित | Copy Forwarded to:

1. District Magistrate, KANNUR, Kerala with reference to his Noc No: 2014/65478/13/D1 Dated: 10/04/2015
2. Superintendent of Police, KANNUR, Kerala.

उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives  
कोच्ची | Ernakulam

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क आदि के लिए हमारी वेबसाइट <http://peso.gov.in> देखें।)  
(For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)

**अनुज्ञप्ति प्ररूप एल. ई.-3 | LICENCE FORM LE-3**

(विस्फोटक नियम, 2008 की अनुसूची 4 के भाग 1 के अनुच्छेद 3(क) से (घ) देखिए।)

(See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008)

(ग) उपयोग के लिए एक समय पर वर्ग 1,2,3,4,5 या वर्ग 7 के विस्फोटक या किसी मैगजीन में वर्ग 6 के विस्फोटक रखने के लिए अनुज्ञप्ति

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

अनुज्ञप्ति सं. (Licence No.) : E/SE/KL/22/13(E84556)

वार्षिक फीस रुपए (Annual Fee Rs): 2400/-



1. Licence is hereby granted to

**C.G.GEORGE JOINT MANAGING DIRECTOR (अधिभोगी / Occupier : C G GEORGE), CHENDAYAD GRANITES PVT LTD, CP III C 40 KSIDC INDUSTRIAL GROWTH CENTER, VALIYAVELICHAM, KOOTHUPARAMBA, Town/Village - KOOTHUPARAMBA, District-KANNUR, State-Kerala, Pincode - 670643**

को अनुज्ञप्ति अनुदत्त की जाती है।

2. अनुज्ञप्तिधारी की प्रास्थिति | Status of licensee : Company

3. अनुज्ञप्ति निम्नलिखित प्रयोजनों के लिए विधिमान्य है।  
Licence is valid only for the following purpose. लिए

possess for use of Nitrate Mixture, Safety Fuse, Electric and/or Ordinary Detonators, - के उपयोग के लिए

4. अनुज्ञप्ति विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमान्य है।

Licence is valid for the following kinds and quantity of explosives: -- (क) (a)

क्र. Sr. No.	नाम और विवरण Name and Description	वर्ग और प्रभाग Class & Division	उप-प्रभाग Sub-division	मात्रा किसी एक समय में Quantity at any one time
1.	Nitrate Mixture	2,0	0	100 Kg.
2.	Safety Fuse	6,1	0	3000 Mtrs
3.	Electric and/or Ordinary Detonators	6,3	0	2000 Nos.

(ख) किसी एक कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा [अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञप्ति के लिए]

(b) Quantity of explosives to be purchased in a calendar month[applicable for licence under article 3(b) and (c)] : 30 times as above.

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञप्त परिसर की पृष्टि होती है।

The licensed premises shall conform to the following drawing(s) :

रेखाचित्र क्र. (Drawing No.) E/SE/KL/22/13  
(E84556)  
दिनांक (Dated) 29/07/2019

6. अनुज्ञप्ति परिसर निम्नलिखित पते पर स्थित हैं। The licensed premises are situated at following address:

Survey No. 275/1A , ग्राम (Town/Village) : Trippangottur  
जिला (District) KANNUR राज्य (State) Kerala पोलिस थाना (Police Station) : Kolavallur  
दूरभाष (Phone) 9447485245 ई. मेल (E-Mail) पिनकोड (Pincode) 0  
फैक्स (Fax)

7. अनुज्ञप्ति परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं।

The licensed premises consist of following facilities.

Constructed type C magazines for explosives and  
: detonators as per Specification 2 of Schedule VII of  
Explosives Rules 2008

8. अनुज्ञप्ति समय – समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबंधों के अधीन रहते हुए अनुदत्त की जाती है।  
The licence 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.
- उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सन्निर्माण संबंधी और अन्य विवरण दर्शित करते हुए)  
Drawings (showing site, constructional and other details) as stated in serial No. 5 above.
  - अनुज्ञप्ति प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञप्ति की शर्तें और अतिरिक्त शर्तें।  
Conditions and Additional Conditions of this licence signed by the licensing authority.
  - दूरी प्ररूप DE-2 | Distance Form DE-2.
9. यह अनुज्ञप्ति तारीख 31 मार्च 2019 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2019.
- यह अनुज्ञप्ति, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपवर्णित इस अनुज्ञप्ति की शर्तों का अधिक्रमण करने या यदि अनुज्ञप्त परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंहत की जा सकती है, जहां वह लागू हो।  
This licence 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.

तारीख | The Date - 20/02/2015

उप मुख्य विस्फोटक नियंत्रक | Dy. Chief Controller of  
Explosives  
Ernakulam

**Amendments :**

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 10/01/2018
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 08/02/2019
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 29/07/2019

**Transfers :**

- Change in Licensee Name/Address/Status dated : 29/02/2016

नवीनीकरण के पृष्ठांकन के लिए स्थान  
Space for Endorsement of Renewal

नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature of licensing authority and stamp
07/02/2019	31/03/2024	Sd/- Dy. Chief Controller of Explosives, Ernakulam

**कानूनी चेतावनी :** विस्फोटकों को गलत ढंग से चलाने या उनका दुरुपयोग विधि के अधीन गंभीर दंडिक अपराध होगा।

**Statutory Warning :** Mishandling and misuse of explosives shall constitute serious criminal offence

**Annexure No. 7**



നമ്പർ: 54/2020-2021/A-3/A2-944/20 തീയതി: 27/05/2020

**ത്രിപ്രങ്ങോട്ടൂർ ഗ്രാമപഞ്ചായത്ത്**  
കല്ലിക്കണ്ടി പി.ഒ., കണ്ണൂർ (ജില്ല)

ഫിൻ : 670693, ഫോൺ : 0490-2462034, ഇ-മെയിൽ : triprangottoorgp@gmail.com

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**വ്യവസായം, വാണിജ്യം, സംരക്ഷകത്വം, മറ്റ് സേവനങ്ങൾക്കുള്ള ലൈസൻസ്**  
(കെ.പി.ആർ ആക്ട് സെക്ഷൻ 232, FACTEOS ലൈസൻസ് ചട്ടങ്ങൾ 1996)

ലൈസൻസിയുടെപേര്	സി ജി ജോർജ്ജ്		
ലൈസൻസിയുടെ മേൽവിലാസം	ജോയിന്റ് മാനേജിങ് ഡയറക്ടർ ചെണ്ടയാട് ഗ്രാനൈറ്റ് പ്രൈ. ലി , വലിയ വെളിച്ചം		
സ്ഥാപനത്തിന്റെ പേരും സ്ഥലനാമവും	കാറി വാഴ മല		
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	കാറി		
വാർഡ് നമ്പർ/കെട്ടിട നമ്പർ	II/275 1A		
ലൈസൻസ് കാലാവധി	01/04/2020 മുതൽ	31/03/2021 വരെ	
ലൈസൻസ് ഫീസ്	തുക	രസീത് നമ്പർ	തീയതി
	5000 /- രൂപ	119010107694	27/02/2020
		119010107694	27/02/2020
മോട്ടോർ ഫീസ്		119010107695	27/02/2020
തൊഴിൽ നികുതി	2500 /- രൂപ		

1. പൊലുഷൻ കൺട്രോൾ ബോർഡിന്റെ 07/05/2020 ലെ NO PCB/KNR/ICO-R/484/2020 ,(VALIDITY 30/04/2025)



27/05/2020

സെക്രട്ടറി

ത്രിപ്രങ്ങോട്ടൂർ ഗ്രാമപഞ്ചായത്ത്  
Secretary

Triprangottoor Grama Panchaya  
P. O. Kallikkandi-670 693

Copy of license from Gram Panchayat

**Annexure No.8****PROCEEDINGS OF THE DIRECTOR OF MINING & GEOLOGY**

**Sub:** Mining & Geology - Mines & Minerals - Minor Minerals – Granite Building Stone – Quarrying Lease to M/s. Chendayad Granites Pvt. Ltd., CP3/C40, KSIDC Industrial Growth Centre, Mooryad. P.O, Valiyavalicham, Koothuparamba, Kannur District – 670 643 (Represented by one of its Joint Managing Director, Shri. C. G. George) –sanctioned – Orders – issued.

- Ref.** 1. Application dtd. 21/02/2017 from M/s. Chendayad Granites Pvt. Ltd., CP3/C40, KSIDC Industrial Growth Centre, Mooryad. P.O, Valiyavalicham, Koothuparamba, Kannur District – 670 643 (Represented by one of its Joint Managing Director, Shri. C. G. George)
2. Letter No. DOC/M-938/2017 dtd. 28/04/2017 from the Geologist, District Office, Kannur
3. Pro.order. No. 45/KNR/2017/DEIAA dtd. 02/09/2017 of the District Environment Impact Assessment Authority, Kannur, Kerala
4. Kerala Minor Mineral Concession Rules, 2015.

No. 408/2017-18/4138/M3/2017/DMG

Dated, Thiruvananthapuram 04/10/2017

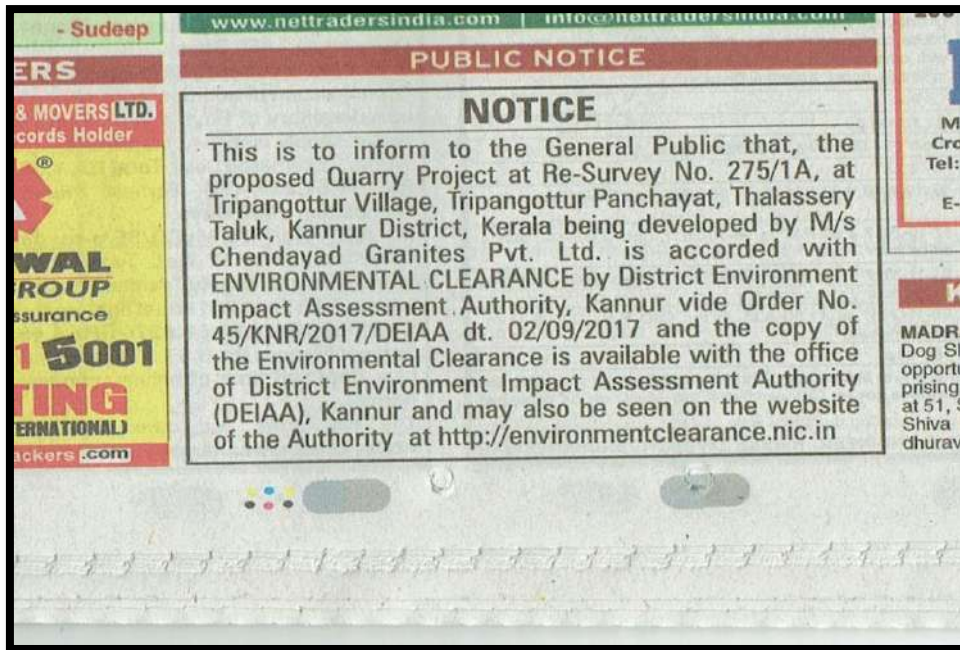
**ORDER**

A quarrying lease is granted to M/s. Chendayad Granites Pvt. Ltd., CP3/C40, KSIDC Industrial Growth Centre, Mooryad. P.O, Valiyavalicham, Koothuparamba, Kannur District – 670 643 (Represented by one of its Joint Managing Director, Shri. C. G. George) to quarry Granite (Building Stone) over an area of 1.5176 Hectares of land comprised in Re - Sy. No. 275/1A of Tripangottur Village, Thalassery Taluk, Kannur District for 6 (Six) years from the date of execution of the quarrying lease deed under the Kerala Minor Mineral Concession Rules, 2015 and as per the survey map issued by the Tahsildar, Thalassery and the approved Mining Plan and environmental clearance submitted by the applicant subject to the under mentioned conditions.

1. Royalty is payable to Government as per Rule 32 of the Kerala Minor Mineral Concession Rules, 2015 in respect of minor mineral quarried and moved out of the quarry subject to revision from time to time on the basis of amendments to the schedule I of the said Rules.
2. Dead rent is realizable under 40(1)(d) of the said rules subject to revision from time to time on the basis of amendments to the schedule II of the said rules.
3. Surface rent realizable under 40(1)(e) of the said rules will be equal to the land revenue assessed by the Revenue Department subject to revision from time to time on the basis of the land revenue.
4. The lessee shall execute a quarrying lease deed within a period of six months from the date of this order in form 'H' as per Rule 43 of the Kerala Minor Mineral Concession Rules, 2015.
5. The lessee shall also deposit an amount of Rs 10,000/- (Rupees Ten Thousand only) per hectare as security deposit for the observance of the terms and conditions of the lease before the deed is executed as per rule 42 of the said rules. The lessee shall commence quarrying operation only after the deed is executed and registered.
6. The quarrying area shall be demarcated and boundary stones fixed at the lessee's expenses before execution of the quarrying lease deed.
7. The lessee shall not win and dispose of any type of dimension and decorative stones from the area over which the quarrying lease has been sanctioned on the strength of this order.
8. The production of Granite (Building Stone) from the area covered under this grant shall be subject to the quantity specified in the Mining Plan submitted by the lessee and the same is restricted to **26,000 Metric Tonnes** per year.
9. (i) The lessee shall erect a notice board in Malayalam at a prominent place with a minimum size of 1 metre X 1.5 metres in a metallic board near to the entrance of the quarry to the effect that it shall contain the name and address of the permit holder, mineral concession number and date, the mineral to be extracted, permit number and date and its date of expiry,

Copy of Lease

Annexure No. 9



Advertisement in News papers

## Annexure No. 10

**Geo'sand<sup>TM</sup>**

Dt. 08/09/2017

The Secretary,  
Tripangottur Panchayat,  
Thalassery Taluk, Kannur District,  
Kerala.

**Sub:- Environmental Clearance (E.C.) – Proposed Quarry Project at Re-Survey No. 275/1A, Tripangottur Village, Tripangottur Panchayat, Thalassery Taluk, Kannur District, Kerala – Submission of the E.C. Order – Compliance to the condition of Environment Clearance – Reg.**

Respected Sir,

1. This refers to the Environmental Clearance obtained to the proposed Quarry Project at Re-Survey No. 275/1A, Tripangottur Village, Tripangottur Panchayat, Thalassery Taluk, Kannur District, Kerala vide Order No. 45/KNR/2017/DEIAA dt. 02/09/2017.
2. We hereby submit a self attested copy of the Environment Clearance Order No. 45/KNR/2017/DEIAA dt. 02/09/2017. This is in compliance to the condition of the E.C. Order.

Kindly acknowledge the receipt of the same.

Thanking you,

Yours respectfully,  
for Chendayad Granites Pvt. Ltd.,

*C.G George*  
C.G George,  
(Joint Managing Director)

Encl: As above

*[Signature]*  
Secretary  
Tripangottur Grama Panchayat  
K.O. Kallikkandi-670 693

Chendayad Granites (P) Limited  
Building No.: CPIIC40, KSIDC Industrial Growth Centre, Vallyavelicham, Koothuparamba, Pin: 670643  
Kannur Dt., Kerala. Ph : 0490 2364300. Mob: 8113 041 112, 8113 041 113, 8113 041 114, 8113 041 119  
e-mail: geosandin@gmail.com. www.geosand.in

Copy of acknowledgement

## Annexure No. 11

**TEST REPORT**

Test Report No: 20200608/R032	Date: 13.06.2020	Page 1 of 1
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**CUSTOMER DETAILS**

Customer Details	Name & Address	Mr. C.G George Joint Managing Director M/s Chendayad Granites (P) Ltd CP 3C40, KSIDC, Industrial Growth Centre, Mooriyad, Kannur District	
	Monitoring Site	Poyiloor	
Location of Site	Survey No	275/1 A	
	Village	Thripangottor	
	Taluk	Thalassery	
	District	Kannur	
	State	Kerala	
Customer Reference	---		

**SAMPLE DETAILS**

Source of Sample	Ambient Air	Sample Code	20200608/S032
Location of Monitoring	South West Boundary	Sampled By	Laboratory
Date of Monitoring	08.06.2020	Test Started On	10.06.2020
Sample Received On	09.06.2020	Test Completed On	13.06.2020
Humidity	80%	Sampling Procedure	SEAAL/ENL/GEN/SOP/02

SL NO	TEST PARAMETER	TEST METHOD	UNIT	RESULTS	NAAQ STANDARD
01	Particulate matter (PM <sub>10</sub> )	IS 5182 Part 23: 2006 RA 2017	µg/m <sup>3</sup>	37.4	100
02	Particulate matter (PM <sub>2.5</sub> )	EPA 40 CFR Part 50 Appendix – L	µg/m <sup>3</sup>	18.7	60.0
03	Sulphur dioxide (SO <sub>2</sub> )	IS 5182 Part 2: 2001 RA 2017	µg/m <sup>3</sup>	< 2.00	80.0
04	Nitrogen dioxide (NO <sub>2</sub> )	IS 5182 Part 6: 2006 RA 2017	µg/m <sup>3</sup>	< 2.00	80.0


\*\*\*End of Report\*\*\*

For and on behalf of  
Standard<sup>s</sup> Environmental & Analytical Laboratories
  
Authorized Signatory

**Rija Joseph**  
 Technical Manager
**Standard<sup>s</sup> Environmental & Analytical Laboratories**
 Approval & Recognition: "A" Grade Laboratory approved by Kerala State Pollution Control Board.  
 K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43  
 Web: www.sealabs.in, E-mail: seaalab@gmail.com

Result of Air

## Annexure No.12



**TEST REPORT**


Test Report No: 20200608/R033	Date: 14.06.2020	Page 1 of 1
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CUSTOMER DETAILS		
Customer Details	Name & Address	Mr. C.G George Joint Managing Director M/s Chendayad Granites (P) Ltd CP 3C40, KSIDC, Industrial Growth Centre, Mooriyad, Kannur District
Location of Site	Monitoring Site	Poyiloor
	Survey No	275/1 A
	Village	Thripangottor
	Taluk	Thalassery
	District	Kannur
	State	Kerala
Customer Reference	---	


SAMPLE DETAILS	
Source of sample	Ambient Sound Level
Sample Code	20200608/S033
Location of Monitoring	North Side Boundary
Date of Monitoring	08.06.2020

DAYTIME	RESULT	NIGHTTIME	RESULT
06.00 Hrs	37.2 dB (A)	23.00 Hrs	33.5 dB (A)
07.00 Hrs	39.9 dB (A)	00.00 Hrs	35.9 dB (A)
08.00 Hrs	44.2 dB (A)	01.00 Hrs	36.6 dB (A)
09.00 Hrs	47.6 dB (A)	02.00 Hrs	36.2 dB (A)
10.00 Hrs	49.9 dB (A)	03.00 Hrs	36.9 dB (A)
11.00 Hrs	53.0 dB (A)	04.00 Hrs	35.9 dB (A)
12.00 Hrs	50.3 dB (A)	05.00 Hrs	37.6 dB (A)
13.00 Hrs	49.5 dB (A)	RESULTS	
14.00 Hrs	49.9 dB (A)		
15.00 Hrs	50.3 dB (A)	Noise Level (Leq) Daytime	48.4 dB (A)
16.00 Hrs	51.5 dB (A)		
17.00 Hrs	51.8 dB (A)		
18.00 Hrs	46.5 dB (A)		
19.00 Hrs	43.0 dB (A)	Noise Level (Leq) Nighttime	36.2 dB (A)
20.00 Hrs	39.2 dB (A)		
21.00 Hrs	38.7 dB (A)		
22.00 Hrs	36.1 dB (A)		

\*\*\*End of Report\*\*\*



For and on behalf of  
Standard<sup>s</sup> Environmental & Analytical Laboratories

**Rija Joseph**  
Technical Manager 


Authorized Signatory

**Standard<sup>s</sup> Environmental & Analytical Laboratories**

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K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43  
Web: www.sealabs.in, E-mail: seaalab@gmail.com

## Result of Noise

## Annexure No.13



## TEST REPORT

Test Report No: 20200608/R034	Date: 13.06.2020	Page 1 of 1
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CUSTOMER DETAILS			
Customer Details	Name & Address	Mr. C.G George Joint Managing Director M/s Chendayad Granites (P) Ltd CP 3C40, KSIDC, Industrial Growth Centre, Mooriyad, Kannur District	
Location Of Site	Monitoring Site	Poyiloor	
	Survey No	275/1 A	
	Village	Thripangottor	
	Taluk	Thalassery	
	District	Kannur	
	State	Kerala	
Customer Reference	---		

SAMPLE DETAILS			
Sample Code	20200608/S034	Sample Received On	09.06.2020
Sample Name	Water	Sampling Procedure	---
Sample Description	Stream Water	Sampling Location	---
Identification By Customer	---	Sample Condition	Good
Sampled On	---	Test Started On	09.06.2020
Sampled By	Customer	Test Completed On	13.06.2020


SL NO	TEST PARAMETER	TEST METHOD	UNITS	RESULT	ACCEPTABLE LIMIT (IS 10500 - 2012)
01	Colour	IS 3025 Part 4:1983 RA 2017	Hazen	1.00	5.00 (Max)
02	Odour	IS 3025 Part 5:2018	---	Unobjectionable	Unobjectionable
03	Turbidity	IS 3025 Part 10:1984 RA 2017	NTU	0.10	1.00 (Max)
04	pH	IS 3025 Part 11:1983 RA 2017	---	6.89	6.50 - 8.50
05	Conductivity	IS 3025 Part 14:1984 RA 2019	µS/cm	99.0	---
06	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2017	mg/L	71.2	500 (Max)
07	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 Part 21:2009 RA 2019	mg/L	22.3	200 (Max)
08	Calcium (as Ca)	IS 3025 Part 40:1991 RA 2019	mg/L	3.26	75.0 (Max)
09	Magnesium (as Mg)	IS 3025 Part 46:1994 RA 2019	mg/L	1.10	30.0 (Max)
10	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2019	mg/L	16.2	250 (Max)
11	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 Part 23:1986 RA 2019	mg/L	26.1	200 (Max)
12	Iron (as Fe)	IS 3025 Part 53:2003 RA 2019	mg/L	0.10	1.00 (Max)
13	Sulphate (SO <sub>4</sub> )	IS 3025 Part 24:1986 RA 2019	mg/L	1.00	200 (Max)
14	Total Coliform Bacteria	IS 15185 : 2016	----	Absent/100 ml	Absent
15	E coli	IS 15185 : 2016	----	Absent/100 ml	Absent

\*\*\*End of Report\*\*\*

For and on behalf of  
Standard<sup>s</sup> Environmental & Analytical Laboratories



**Rija Joseph**  
Technical Manager  
Authorized Signatory



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## Result of Water