

# **COMPLIANCE REPORT**

**OCTOBER 2020 - MARCH 2021**

**Quarry Project of  
M/s SRI LAKSHMI STONE CRUSHER**

**Kannur District  
Kerala**

**Dt.20-05-2021**

**The Member Secretary  
District Environment Impact Assessment Authority (DEIAA),  
DEIAA, Kannur**

**Ref :- File No. 09/KNR/2017/ DEIAA**

**Sub :- Environment Clearance – Quarry project at Survey No. 1561,  
Kanichar Village, Iritty Taluk, Kannur District, Kerala – Compliance  
Report –Second half - Reg.**

**Respected Sir,**

The Quarry (Building stone) project was accorded Environmental Clearance for **0.9898 Ha.** by order No. **09/KNR/2017/ DEIAA** dated 01-07-2017 by District Environmental Impact Assessment Authority, Kannur, Kerala. The compliance report of **Second half** (October 2020– March 2021) to the specific and general conditions of the Environment Clearance order is enclosed.

Thanking you,

Yours respectfully,



**M/s. Sri Lakshmi Stone Crusher**

**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: 09/KNR/2017/ DEIAA  
Dated: 01-07-2017**

*BY*  
**DISTRICT ENVIRONMENT IMPACT ASSESSMENT AUTHORITY  
(DEIAA)  
FOR  
BUILDING STONE QUARRY  
(MINOR MINERAL MINING) PROJECT**

*AT*  
**SURVEY NO. 1561  
KANICHAR VILLAGE, IRITTY TALUK,  
KANNUR DISTRICT, KERALA**

*BY*  
**M/s. SRI LAKSHMI STONE CRUSHER  
KANNUR DISTRICT  
KERALA**

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## INTRODUCTION

Quarry project of **M/s. Sri Lakshmi Stone Crusher** is situated at Survey No. 1561, Kanichar Village, Iritty Taluk, Kannur District, Kerala.

The quarry project was accorded with the Environmental Clearance (EC) by District Environmental Impact Assessment Authority (DEIAA), Kannur on 01-07-2017. 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 Second half to the specific conditions and general conditions of the Environmental Clearance order for the period of **October 2020 – March 2021** 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 a mines manager to control, direct, manage and supervise the quarrying operations. The certificate of Mines engineer and Form D is attached as **Annexure No 9**.

<b>02</b>	<b>Health and welfare for the persons employed shall be implemented</b>	<b>complied</b>
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The project proponent 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 done in controlled manner by using ordinary delayed detonators to reduce ground vibration. 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 mitigate measures to arrest ground vibration and fly rock is detailed in General condition No 11. The blasting time in the quarry is in day time at 9.00-10.30 am, 2-3 pm and 4.00 - 5.30pm.

<b>04</b>	<b>Plantation shall be done which includes a green belt of adequate width around the mining lease area excluding the rocky area, along roads, overburden dumps and non-</b>	<b>Being Complied</b>
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	<b>mineralized area by planting suitable native species in consultation with the local DFO/Agriculture department.</b>	
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The project proponent has started to plant 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 proponent has taken the suggestion of agricultural department to plant the native species. Photograph of plantation is attached as **Plate No.2**

<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>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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To demarcate the land, the project proponent has done fencing around the lease area. This was done by barbed metal wire.

<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>Appropriate sign boards should be displayed.</b>	<b>Complied</b>
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To give warning to the labours and community people prior to the blasting in quarry, the project proponent installed warning alarms as per the stipulation of Explosive department in the quarry site. To aware the labours and general public about the blasting a board containing blasting time has displayed in the project site.

<b>09</b>	<b>The blasting time must be displayed and strictly adhered to.</b>	<b>Complied</b>
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To give notice to the labours and community people prior to the blasting in quarry, the project proponent installed a board showing the blasting time in the quarry site. The blasting time is 9.00-10.30 am, 2-3 pm and 4.00 - 5.30pm. The photograph of the board showing blasting time is attached as **Plate No.4**

<b>10</b>	<b>Dust suppression mechanism must be in place.</b>	<b>Complied</b>
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The project proponent splashes the haulage road and critical areas with the help of vehicles in regular intervals to arrest dust emissions from the road while transportation of materials.

<b>13</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 demarcated a separate small plot to preserve the endemic species in the project site. The project proponent has started to plant saplings in the project site.

<b>14</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 ordinary 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>15</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.

<b>16</b>	<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 quarrying activity in the project site is progressing by creating benches of 5m width and 5m height. The extraction of minerals is from top to bottom. The exploration done as per the plan submitted before District Environment Impact Assessment Authority (DEIAA), Kannur.

<b>17</b>	<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 labours works on the bottom bench only after clearing loose minerals from the side wall. The vehicles like JCB, breakers are used to remove the loose or hanging mineral boulders in the project site.

<b>18</b>	<b>Permanent boundary pillars should be fixed by the proponent before commencing quarrying</b>	<b>complied</b>
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Boundary pillars are fixed permanent in the project site before commencing quarrying to demarcate the project site.

<b>19</b>	<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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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. The condition will be complied by the project proponent when such situation arises

20	<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 being stabilised by bio regeneration. Proper drainages are constructed by the project proponent, which will help to manage the storm water to prevent soil erosion from the dump during monsoon season.

21	<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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Overburden is an inevitable by-product of building stone quarry. The overburden materials are stored within the site at designated place. The project proponent has planted appropriate grass on the dump to prevent sliding and soil erosion.

22	<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 initiated steps to construct storm water drains in the lower slopes of the project area for effective management of storm water. This helps to channelize the storm water to the rain water collection pond and the most of the debris will be settled down in the bottom of the pond.

<b>23</b>	<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 releasing the clarified water to the natural watercourse.</b>	<b>Complied</b>
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The water from the garlands drainage is directing to the silt settling ponds. The construction of RWH pond is almost constructed. The clarified overflow from silt settling ponds will be directed to a Rain Water Harvesting (RWH) pond before releasing the clarified water to the natural watercourse.

<b>24</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 laterite stone, 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**

<b>01</b>	<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 project proponent has given training for the selected 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.11**

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

<b>03</b>	<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

<b>04</b>	<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.

<b>05</b>	<b>Resting place should be provided for workers.</b>	<b>Complied</b>
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The project proponent has provided adequate rest rooms in the project area to get proper rest to the labours. **Plate No. 6** shows the photograph of resting room.

<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. Photograph of the no smoking board is provided at **Plate No. 7**

<b>07</b>	<b>Work should not be done in night.</b>	<b>Complied</b>
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The quarrying activities are limited to day time only as per KSPCB guidelines in order to reduce the inconvenience of community. The working time of quarry 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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In the project site Details of nearest hospital, Fire station, Police station, etc are available. **Plate No. 8** shows the photograph of details of emergency contact numbers.

<b>09</b>	<b>Approach roads should be maintained properly.</b>	<b>Being 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.

# **COMPLIANCE REPORT**

## **(GENERAL CONDITIONS)**

### **PART B**

**PART – B – GENERAL CONDITION**

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

To harvesting rain water, the project proponent has developed two rain water harvesting pond in the project site to collect rain water falling in the entire mining area. To utilize the rain water, this Rain Water Harvesting (RWH) structure is properly maintaining in the area. The ponds were situated at the lowest level of project site. The rain water is used for irrigation purposes, watering of plants, wetting of roads and for dust suppression system (mainly sprinklers system). The photograph showing the rain water collection pond in the project area is attached in **Plate No 12**.

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

The Environmental Monitoring Cell (EMC) formed and made functional with Mr. C G George as head of the monitoring cell. The EMC meeting convenes regularly for a sustainable environment. The details of the monitoring cell are given in the **Table No.1**. The NABET accredited consultant helps the company to upkeep the environment friendly mining

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

Sl. No.	Post	Name
1	Head of monitoring cell	C G George
2	Member	Nigil
3	Member	Chandrasekhar G P

<b>03</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>Complied</b>
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**Compliance:**

Green belt is an important component in the mining sector. To reduce air and noise pollution, the project proponent has planted suitable avenue trees along either side of the road. There is also natural vegetation including trees, shrubs and climbers are presents in the project area. This will help to reduce air and sound pollution. Photograph of plants along either side of the road is shown in **Plate No. 1**.

<b>04</b>	Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.	<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 street lights in the project site to use maximum renewable energy to reduce electrical consumption from KSEB. The lights are maintained by the project proponent effectively.

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

To arrest dust emissions from the road while transportation of materials the project proponent splashes the haulage road and critical areas with the help of vehicles in regular intervals. The sprinklers are also installed in the critical area to reduce the dust emission. The photograph of the sprinklers is attached as **Plate No.2**.

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

Eco-restoration including the mine closure plan will done at the own cost of the project proponent.

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

To save rain water, ten percent of the excavated pit area will be retained as water storage area. This will help to improve the ground water table. The remaining area will be reclaimed with stacked dumping of overburden and top soil. As part of its eco – restoration plan, the project proponent will plant indigenous plant species that are eco – friendly on the reclaimed area.

<b>08</b>	Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented.	<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 Housing. The details are given below in the table.

**Table No.2 – CSR/CER Details**

<b>Sectors</b>	<b>Activities</b>	<b>Beneficiaries</b>	<b>Amount spent in Rs.</b>
<b>Infrastructure Development</b>	Donation	Babu K, 27TH Mile, Poolakutty	35000
	Donation	reji moothradan ,27TH Mile, Poolakutty	40000
	Donation	Chandran Poovan Narikodemala	30000
	Donation	Siju P K , 27TH Mile, Poolakutty	40000
<b>Total</b>			<b>283851</b>

<b>09</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>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 barbed metal wire fencing is provided in **Plate No.15**.

<b>10</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>complied</b>
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**Compliance:**

To give warning to the labours and community people prior to the blasting in quarry, the project proponent installed warning alarms as per the stipulation of Explosive department in the quarry site.

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

The noise and vibration are an adverse impact in a mining industry. To reduce noise level in the project site, the project proponent has implemented mitigate measures. 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>	Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.	<b>Complied</b>
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#### ***Compliance:***

To reduce the adverse effect of Quarrying activities in the community, the mining activity will limit to day time as per KSPCB guidelines. The quarry working time is 7.00am to 6.00 pm. This will help to limit the sound pollution.

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

The project proponent has appointed a license person to supervise and monitor all the activities carrying out in the project site. The blasting is done in controlled manner by using ordinary/electrical delayed detonators. All blasting activities are carrying out with the specified regulations of explosive department. The blasting time is displayed in the sign board and all blasting happens in the specified timings. The blasting time in the quarry is in day time at 9.00-10.30 am, 2-3 pm and 4.00 - 5.30pm. The photograph of the board showing blasting time is attached as **Plate No.4**

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

The project proponent has appointed a mines manager to supervise/control the blasting operations for the exploitation of minor minerals from the project site. The certificate of Mines engineer and Form D is attached as **Annexure No 8**.

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

To contain dust emissions and for the trouble free transportation of materials, the project proponent has tarred the access road of 1 km to the quarry site. The project proponent splashes water on the road to arrest the dust production during summer season. The project proponent is regularly maintaining the access road in a good manner. The photograph of road is attached as **Plate No.13**.

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

Overburden is an inevitable byproduct of building stone quarry. There is no old quarry in the site for restoration. The overburden materials are stored within the site at designated place. This will be used to restore the exploited area in future. Photograph showing Over Burden is attached as **Plate no.14**

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

The quarrying is carrying out as per mining plan. To enhance safety and conserve environment, the project proponent extracts the minerals by creating



benches. The benches are 5 meters of height and the width of the bench have minimum of 5 meters. The project maintains the width of benches minimum of 5 meters. **Plate No.8** showing the work progressing in the quarry area. The photograph of the benches is attached as **Plate No. 3**

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

The project proponent is yet to use blasting mat to reduce fly rocks during blasting. The project proponent is using ordinary delayed detonator for blasting therefore there is no issue with fly rock in the community and the project proponent also assure the maximum PPV is under 10.

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

The depth of mining won't exceed beyond 10 meter or not below the level of the nearest stream bed, whichever is less. The exploration will be done as per the plan submitted before State Environment Impact Assessment Authority (SEIAA), Kerala.

<b>20</b>	No mining operations should be carried out at places having a slope greater than 45 <sup>0</sup> .	<b>Noted</b>
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**Compliance:**

In the project site, there is no area with a slope greater than 45<sup>0</sup>.

<b>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>Being Complied</b>
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**Compliance:**

To reduce the impact of sound to the labours in the mine, the project proponent has provided ear plugs. All machines are new. Vegetation around the mining area will help to reduce noise and air pollution. This helps the noise level kept within prescribed standards. There is no crusher unit in the project site.

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

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

<b>23</b>	Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.	<b>Complied</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 has created garland drains where it is necessary in the project area for the effective storm water management.

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

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

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

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

<b>26</b>	Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations.	<b>Being complied</b>
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**Compliance:**

The project proponent is using the used oil as lubricant for machineries and other equipments. Disposal of spent oil from diesel engines will be sold only to the approved recyclers as specified under relevant Rules/Regulations.

<b>27</b>	Explosives should be stored in magazines in isolated place specified and approved by the explosives department.	<b>complied</b>
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**Compliance:**

As part of safety, 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. The photograph of the magazine is attached as **Plate No. 9**

<b>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>complied</b>
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**Compliance:**

To reduce the adverse impact on community life, the norms of Kerala State Pollution Control Board regarding the distance criteria of residences, roads, rivers and worship places is adhered by the project.

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

There is no forest near to the project site.

<b>30</b>	Consent from Kerala Pollution Control Board under Water and Air Act(s) should have been obtained before initiating activity.	<b>Complied</b>
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**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. The consent is attached as **Annexure No. 1**.

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

The certificates obtained from concerned statutory authorities are enclosed in **Annexure No.1, 2, 3, 4 & 5**. 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>
“ <i>Consent to Operate</i> ”	Kerala State Pollution Control Board
Environmental Clearance order	State Environmental Impact Assessment Authority, Kerala
License for quarry operations	Gram Panchayath
Explosive License	Ministry of Commerce & Industry – Petroleum & Explosives Safety Organization (PESO)
Permit order	Directorate of Mining and Geology

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

At present there is no change in the scope of the project. The project will seek for a new Environmental clearance in the case of any change(s) in the scope of the project.

<b>33</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>Noted</b>
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**Compliance:**

The project proponent is willing to add all possible additional safe guard measures subsequently if the authority found necessary.

<b>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>Noted</b>
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**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

- Kerala Minor Mineral Concession Rules, 2015.
- Mines Act, 1952
- Explosive Rules, 2008
- Kerala Panchayat Raj Act, 1994
- Water Pollution (Prevention & Control) Act, 1974

- Air Pollution (Prevention & Control) Act, 1981
- Environment Protection Act, 1986
- EIA Notification, 2006 / 2009
- The Kerala Promotion of Tree Growth in Non-Forest Areas (Amendment) Act, 2007.

<b>35</b>	<p><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>. <u>The advertisement should be made within 10 days from the date of receipt of the Clearance letter and the copy of the same signed in all pages should be forwarded to the office of this authority as confirmation.</u></b></p>	<b>Complied</b>
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### ***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.6**. 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	Mangalam	Malayalam	21-10-2017
2	The Hindu	English	21-10-2017

<b>36</b>	<p>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</p>	<b>Complied</b>
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	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.	
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**Compliance:**

A copy of the Environment Clearance letter was submitted to the Panchayat 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 project proponent does not have a website this will be created soon. The copy of the acknowledgement is attached as **Annexure No.7**

<b>37</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 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>Complied</b>
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**Compliance:**

The compliance report is being submitted along with the results of monitored data 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 Monitoring result of ambient air. Sound and water is attached as **Annexure Nos. 10, 11 & 12.**

<b>38</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>complied</b>
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**Compliance:**

The detail of the Environmental Clearance has display on metallic board in the project site. The metallic board installed as specified in the conditions of Environmental Clearance order. The photograph of the metallic board is provided at **Plate No.10.**

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

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

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

The project proponent is not intending to expand the area of mine, technology and scope of working. The project proponent will appear SEIAA for Environment Clearance if the project wants to expand its scope.

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

The Rain water harvesting pond in the site is working as clarifiers to prevent the quarry waste within the site. The project proponent will install additional clarifiers in the project site to prevent sediments and wastes from quarry site to enter in to the main stream. The project proponent will constitute a Cell to monitor such commitments to the community.



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.	<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), during the time of appraisal of the project. The project proponent is intending to increase spraying of water and installation of sprinklers at loading, unloading and transfer points.

43	The top soil, if any, shall be temporarily stored at earmarked site(s) only for the topsoil shall be used for land reclamation and plantation. The Over Burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.	<b>Being complied</b>
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**Compliance:**

To prevent the soil erosion, the top soil and overburden are stacked in 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 as per the direction of District Environment Impact Assessment Authority (DEIAA). The Environment Monitoring Cell will monitor the execution of eco restoration.

44	Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc., The drains shall be regularly de silted particularly after monsoon and maintained properly.	<b>complied</b>
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**Compliance:**

The project proponent has constructed effective garland drains to catch all the storm water during the time of monsoon season. These channels directed the water to the rain water collection pond. All sediments and silts are settling at the bottom of the pond and only cleared water is letting out. The water from the pond can be used for splashing of water on roads to arrest the dust. The project proponent intending to create de siltation chambers along with catch drains.

45	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM <sub>10</sub> and PM <sub>2.5</sub> , such as haul road, loading and unloading points and transfer points – it shall be ensured that the Ambient Air Quality Parameters conform to the norm prescribed by the Central Pollution Control Board in this regard.	<b>Noted</b>
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**Compliance:**

The project proponent splashes water in critical areas prone to air pollution with the help of vehicle and sprinklers regularly. The project proponent initiated steps to increase the number of sprinklers in critical area to reduce the dust emission such as loading and unloading points, haul roads and transfer points.

46	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>complied</b>
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**Compliance:**

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

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

The main sound generating activities in the mining industries 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.

<b>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>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.

<b>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>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.

<b>50</b>	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.	<b>Noted</b>
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**Compliance:**

The project proponent scrupulously follows the condition stipulated in the EC order and keeping all records with a good documentation system. The project proponent will extend all possible cooperation to the officers from regional office of MoEF &CC and can produce all data/information/reports when they are asking for the same.

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

The project proponent has been implementing conditions stipulated in this Environment Clearance order. The project can execute all possible measures in the project site for the conservation of environment.

54	The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license on consent given by any other authority for the same project.	<b>Noted</b>
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**Compliance:**

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

55	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>Noted</b>
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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.	<b>Noted</b>
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57	The mining operation shall be restricted to above ground water table and is should not intersect ground water table.	<b>Noted</b>
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**Compliance:**

The project proponent is following approved mining plan for the extraction of building stones. The project proponent will restrict its mining operations above the ground water table.

58	All vehicle used for transportation and within the mine shall have "PUC" certificate from authorized pollution taking centre. Washing of all vehicles shall be inside the lease area.	<b>complied</b>
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**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 is conducting in authorized pollution checking centre.

59	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>Noted</b>
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**Compliance:**

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

60	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>Noted</b>
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**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 entering in to the public drainage system.

61	Occupational health surveillance programme of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	<b>complied</b>
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**Compliance:**

The project proponent has started occupational health surveillance programme in association with Primary Health Centre (PHC) of Kerala government for the labours working in mining area and crusher.

# Plates



**Plate 1**



**Bamboo**



**Planted plantation**



**Plate 2**



Sprinklers in the Quarry Site

**Plate 3**



**Benches in Mining area**

Plate 4



Blasting Time

Plate 5





**Sign Boards****Plate 6****Resting Room**



Plate 7



No Smoking Board

Plate 8



Emergency Contact Numbers



Plate 9



Magazine

Plate 10



Metallic Board

**Plate 11**



**F A Box**

**Plate 12**



**RWH Pond**



**Plate 13**



**Access Road**

**Plate 14**



**Over burden**

**Plate 15**



**Fencing**



# ANNEXURE

**Annexure No.1****KERALA STATE POLLUTION CONTROL BOARD**

FILE NO. :PCB/KNR/ICO/3200/2015

Date of issue :2021-01-11

**CONSENT VARIATION ORDER****Consent No : PCB/KNR/ICO-R2/424/2016****Ref : 1. CONSENT No: PCB/KNR/ICO/424/2016 dated 20/05/2016.****2. Consent No : PCB/KNR/ICO/424/2016 dated 07/07/2017****3. Environmental Clearance No.09/KNR/2017/DEIAA dated 01/07/2017****4. INTEGRATED CONSENT TO OPERATE - RENEWAL Consent No : PCB/KNR/ICO-R2/424/2016 dated 06/01/2021****5. Your Application No. 14879941 dated 08/01/2021**

The ' Integrated Consent to Operate' issued as per reference above to M/s SRILAKSHMI STONE CRUSHER, 27TH MILE, P.O.POOLAKKUTTY, VIA.NEDUMPOYIL-670650 is hereby modified & issued to M/s SRILAKSHMI STONE CRUSHER, 27TH MILE, P.O.POOLAKKUTTY, VIA.NEDUMPOYIL-670650 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	VALIDITY	31/03/2021
2	SURVEY NUMBER	1561/138 (old 1561)
3	ANNUAL FEE	7700/-
4	TOTAL FEE REMITTED	7700/-
5	ACTIVITY	Granite quarrying in 0.8766 Hectare Re Survey: 1561/138 Village KANICHAR Taluk IRITTY

**II. CONDITIONS**

5.2 Application for the renewal shall be submitted before 31/01/2021 with a valid EC.

5.22 This consent is issued subjected to the following documents submitted along with this application.

1. NOTIFICATION from MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE vide No. S.O. 4254(E) dated 27th November, 2020
2. Environmental Clearance 14/2017 by District Environmental Impact Assessment Authority, Kannur letter No.09/ KNR/2017/DEIAA Dated 01-07-2017
3. Letter of Intent from Department of Mining & Geology vide Letter No.DOC/M-2372/20 dated 06.01.2021

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

**ANITA KOYAN**

Digitally signed by ANITA  
KOYAN  
Date: 2021.01.12 07:25:36  
+05'30'

DATE :11/01/2021

SIGNATURE & SEAL OF ISSUING AUTHORITY  
ENVIRONMENTAL ENGINEER




**To**

C.G. GEORGE, MANAGING PARTNER, SRILAKSHMI STONE CRUSHER, 27TH MILE,  
POOLAKUTTY.P.O., NEDUMPOYIL (VIA), KANNUR DT - 670650

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.

Copy of Consent form PCB

**Annexure No.2**



सत्यमेव जयते

Validity expires on 30.06.2020

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

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

Sub: DEIAA- Environmental clearance for the proposed Granite (Building Stone) Quarry project of M/s Sri Lakshmi Stone Crusher, 27 Mile, Poolakutty.P.O., Nedumpoyil, Kannur District for an area of 0.9898 Hectares in Survey No. 1561 of Kanichar Village, Iritty Taluk, Kannur District

**DISTRICT ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY, KANNUR**


No. 09/KNR/2017/DEIAA Dated, 01/07/2017,Kannur

Ref:1. Online Application dated 28/04/2017 from Mr.C.G.george,  
Managing Partner,M/s Sri Lakshmi Stone Crusher, 27 Mile,  
Poolakutty.P.O., Nedumpoyil.,  
2. Minutes of the 5<sup>th</sup> meeting of DEAC held on 04/05/2017.  
3.Minutes of the 6<sup>th</sup> meeting of DEAC held on 15/06/2017.  
4. Minutes of the 7<sup>th</sup> meeting of DEIAA held on 28/06/2017.

**ENVIRONMENTAL CLEARANCE NO. 14/2017**

Sri.C.G.George,Managing Partner, M/s Sri Lakshmi Stone Crusher, 27 Mile, Poolakutty P.O., Nedumpoyil, Kannur, Kerala-670650,,vide his application received on 28/04/2017 , has sought Environmental Clearance under EIA Notification, 2006 for the quarry project for an area of 0.9898Hectares in Survey No. 1561 of Kanichar Village, Iritty Taluk, 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 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

The proposed project site falls within 11°50'50.41"N to 11°50'53.87"N 75°46'54.94"E to 75°46'59.15"EThe land area consists of 0.9898 hectares, which is private land.



Page 1 of 8

Copy of Environmental Clearance



## Annexure No. 3


**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 1, 2,3,4,5,6 or 7 in a magazine

**अनुज्ञप्ति सं. (Licence No.): E/SE/KL/22/111(E96164)**  
**वार्षिक फीस रूप (Annual Fee Rs): 2400/-**



Licence  
Photo-w  
रकार  
India

1. Licence is hereby granted to  
**Shri C.G.George Managing Partner (अधिभोगी / Occupier : Shri. C.G.George), Sree Lakshmi Stone Crusher 27th Mile P.O. Poolakutty, Nedumpoyil, Town/Village - THALASSERY, District-KANNUR, State-Kerala, Pincode - 670650**

को अनुज्ञप्ति अनुदत्त की जाती है।

2. अनुज्ञप्तिधारी की प्रास्थिति | Status of licensee : **Partnership Firm**

3. अनुज्ञप्ति निम्नलिखित प्रयोजनों के लिए : **possess for use of Nitrate Mixture, Safety Fuse, Electric and/or Ordinary Detonators, - के उपयोग के लिए**  
Licence is valid only for the following purpose.

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. सं.	नाम और विवरण	वर्ग और प्रभाग	उप-प्रभाग	मात्रा किसी एक समय में
Sr. No.	Name and Description	Class & Division	Sub-division	Quantity at any one time
1.	Nitrate Mixture	2,0	0	125 Kg.
2.	Safety Fuse	6,1	0	1650 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] : **20 times as above.**

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

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञप्त परिसर की पुष्टि होती है।  
The licensed premises shall conform to the following drawing(s) :  
रेखाचित्र क्र. (Drawing No.) E/SE/KL/22/111 (E96164)  
दिनांक (Dated) 06/09/2016

6. अनुज्ञप्त परिसर निम्नलिखित पते पर स्थित हैं। The licensed premises are situated at following address:  
Survey No. 1561, ग्राम (Town/Village) : **KANICHAR (V), Iritty**  
जिला (District) : **KANNUR** राज्य (State) : **Kerala** पिनकोड (Pincode) : **670650**  
दूरभाष (Phone) : **9446280985** ई. मेल (E-Mail) :  
पुलिस थाना (Police Station) : **KELAKAM**  
फैक्स (Fax) :

7. अनुज्ञप्त परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं।  
The licensed premises consist of following facilities.  
**CONSTRUCTED TYPE C MAGAZINE AS PER SPECIFICATION 2 OF SCHEDULE VII OF EXPLOSIVE RULES 2008 FOR EXPLOSIVES AND DETONATORS.**

8. अनुज्ञप्ति समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबद्धों 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.

1. 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.

2. अनुज्ञप्ति प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञप्ति की शर्तें और अतिरिक्त शर्तें।  
Conditions and Additional Conditions of this licence signed by the licensing authority.
3. दूरी प्ररूप DE-2 | Distance Form DE-2.
9. यह अनुज्ञप्ति तारीख 31 मार्च 2017 तक विधिमार्ग्य रहेगी। This licence shall remain valid till 31st day of March 2017.
- 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.

Sd/-

तारीख | The Date - 06/09/2016

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

**Amendments :**

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 20/11/2017
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 15/01/2018
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 23/10/2018

**Transfers :**

- Change in Licensee Name/Address/Status dated : 05/10/2017

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	Dy. Chief Controller of Explosives, Ernakulam उप मुख्य विस्फोटक नियंत्रक Deputy Chief Controller of Explosives एरनाकुलम Ernakulam

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

**Statutory Warning :** Mishandling and misuse of explosives shall constitute serious criminal offence under the law.

Copy of Explosive



## Annexure No. 4

	
ലൈസൻസ് നമ്പർ 162/2019-20	തീയതി 14.05.2020
<p>(പഞ്ചായത്തിൽ നിന്നും 1994 ലെ കേരള പഞ്ചായത്ത് രാജ് ആക്ട് (1994 ലെ 13) 232,233,234,254 എന്നീ വകുപ്പുകളും അനുബന്ധ ചട്ടങ്ങളും പ്രകാരമുള്ള വ്യവസായങ്ങൾക്കും സംരക്ഷക പ്രവർത്തനങ്ങൾക്കും മറ്റ് സേവനങ്ങൾക്കും ലൈസൻസ് നൽകൽ)</p> <p style="text-align: center;"><b>ഡി &amp; ഒ ലൈസൻസ്</b> <b>കനിചാർ ഗ്രാമ പഞ്ചായത്ത്</b></p>	
ലൈസൻസിയുടെ പേരും ശ്രീ. സി.ജി ജോർജ്ജ് മേൽവിലാസവും	മാനേജിംഗ് പാർട്ണർ, ശ്രീലക്ഷ്മി സ്റ്റോൺ ക്രഷർ 27ാംമൈൽ പുളക്കുറ്റി പി.ഒ നെടുംപൊയിൽ പിൻ 670650
സ്ഥാപനത്തിന്റെ പേരും സ്ഥലനാമവും	ശ്രീലക്ഷ്മി സ്റ്റോൺ ക്രഷർ 27ാംമൈൽ പുളക്കുറ്റി പി.ഒ നെടുംപൊയിൽ
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	കരിങ്കൽ ക്വറി നടത്തുന്നതിന്
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡ് നമ്പരും	സർവ്വേ നമ്പർ 1561
ലൈസൻസ് കാലയളവ്	01.04.2020 മുതൽ 31.03.2021 വരെ
ഞ്ഞാക്കിയ ലൈസൻസ് ഫീസ്	5000/- 119020103265 നമ്പർ രശിതി പ്രകാരം
ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരാക്ഷേപ പത്രങ്ങളുടെ വിശദാംശങ്ങൾ-നമ്പർ, തീയതി, കാലയളവ്	1.സാന്നിറ്ററി സർട്ടിഫിക്കറ്റ് തീയതി നം 37/2020 6/5/2020 2. മലിനീകരണ നിയന്ത്രണബോർഡിൽ നിന്നുള്ള സാക്ഷ്യപത്രം No.PCB/KNR/ICO/424/2016 Valid up to 30.06.2020 3.കനിചാർ വില്ലേജ് ഓഫീസറിൽ നിന്നുള്ള കൈവശാവകാശസർട്ടിഫിക്കറ്റ് നം 46030035 4. Certificate from Dy. Chief Controller of Explosives, Ernakulam No.E/SE/KI/22/111(E96164) Valid up to 31.03.2024 5. മൈനിംഗ് ആൻഡ് ജിയോളജി വകുപ്പിൽ നിന്നുള്ള അനുമതി No.10/2019-20/MM/GS/OS/DOC/M-1342/19 Valid up to 30.06.2020 6. Permission from State Environment Impact assessment Authority Kannur Valid up to 01.07.2020 7. പാറ പൊട്ടിക്കുന്ന ആളുടെ വൈദ്യഗ്ദ്ധ്യം സംബന്ധിച്ച സർട്ടിഫിക്കറ്റ്
കുറിപ്പ്- നിരാക്ഷേപ സാക്ഷ്യപത്രങ്ങളുടെ കാലാവധി തീരുന്ന മുറയ്ക്ക് ആയവ പുതുക്കി ഹാജരാക്കേണ്ടതാണ്. അല്ലാത്തപക്ഷം ഈ ലൈസൻസിന്റെ കാലാവധി നിരാക്ഷേപ സാക്ഷ്യപത്രങ്ങളുടെ കാലാവധി തീരുന്ന മുറയ്ക്ക് അവസാനിക്കുന്നതാണ്.	 <p style="text-align: right;">   <b>BARU THOMAS</b>          SECRETARY,          Kanichar Gram Panchayat          P.O. Kanichar - 670874       </p> <p style="text-align: right;">PTO</p>

Copy of license from Gram Panchayat

## Annexure No.5

**FORM M**  
(See sub-rule (2) of rule 9)  
(For all type of quarrying permits)  
**GOVERNMENT OF KERALA**  
**DEPARTMENT OF MINING & GEOLOGY DISTRICT OFFICE**  
**KANNUR**  
**QUARRYING PERMIT FOR EXTRACTION OF GRANITE BUILDING**  
**STONE/LATERITE BUILDING STONE/ORDINARY SAND (OTHER THAN SAND**  
**USED FOR PRESCRIBED PURPOSES)/ORDINARY CLAY/LIME**  
**SHELL/SEASHELL GRANTED UNDER RULES 3(1), 9 AND 10 OF THE KERALA**  
**MINOR MINERAL CONCESSION RULES, 2015,**

No. 11/2020-21/ MM/ GS/OS/DOC/M-2372/2020 Dated .12.01.2021

**Sri.C G George, Managing Partner, SriLakshmi Stone Crusher, 27<sup>th</sup> Mile, Poolakutty P O, Kannur-670 650** is hereby permitted to extract and remove **Granite Building Stone** (Name of mineral) from an area of **0.8766 Hectare** in Sy.No. **1561/138 (1561 old)** of **Kanichar** Village of **Iritty** . Taluk of **Kannur** District, Kerala State under rule 3(1) and 9 of the Kerala Minor Mineral Concession Rules, 2015 subject to the conditions mentioned in rule 10.

Quantity of extraction of mineral permitted : **10000 MT**  
(Not applicable in the case of CRP System) :  
Whether the permit holder opted CRP System : **No**  
Number of mineral transit passes to be issued : **1250 Nos**  
Name and address of the owner of the land  
under mineral concession / particulars of consent /  
NOC received from the occupier of the land (if applicable) : **Smt.Puthukudi Chathamballi Ayana**  
Date of expiry of permit : **31.03.2021**

**Details of fee remitted**

Item	Chalan No. & Date	Amount	Name of Treasury
Application fee	KL014798491202021M Dated.22.12.2020	1000/-	DT, Kannur
Royalty	KL016352606202021M Dated.12.01.2021	240,000/-	DT, Kannur
Surface Rent	KL016352606202021M Dated.12.01.2021	500/-	DT, Kannur
DMF remitted, if any	TR 5 Book No. 9648 Receipt No.964788 Dated.12.01.2021	24,000/-	DT, Kannur
Environment Clearance, if any	09/KNR/2017/DEIAA Dated.01.07.2017 Kannur Validity 30.06.2020 which is extended up to 31.03.2021 as per the MOEF Notification No.3749 Dated.27.11.2020, New Delhi.		

   
Signature and Address of the  
Issuing Authority  
**SENIOR GEOLOGIST**  
Department of Mining & Geology  
District Officer, KANNUR-670002

To  
**Sri. C G George,**  
**Managing Partner, SriLakshmi Stone Crusher,**  
**27<sup>th</sup> Mile, Poolakutty P O, Kannur-670 650**

Copy to:

1. District Collector, (with C/L).
2. Deputy Chief Controller of Explosives, Ernakulam (with C/L)
3. Smt.Puthukudi Chathamballi Ayana, Ponniam West P O

Copy of Permit



## Annexure No.6

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**ശ്രീ ലക്ഷ്മി സ്റ്റോൺ ക്രഷർ, ആറ്റുകാൽ**  
മണക്കാട് പി.ഒ., തിരുവനന്തപുരം-695 009, കേരളം  
www.attukalradhakrishnan.org, ഫോൺ: 0471 2458888, 2458484

**നോട്ടീസ്**

പൊതുജന ശ്രദ്ധയ്ക്കായി, കേരള സംസ്ഥാനം, കണ്ണൂർ ജില്ല, ഇരിട്ടി താലൂക്ക്, കണിച്ചാൽ പഞ്ചായത്ത്, കണിച്ചാർ വില്ലേജിലുംപ്പെട്ട സർവ്വേ നമ്പർ 1561 -ൽ പാറ ഖനനം ചെയ്യുന്നതിനുവേണ്ടി പരിസ്ഥിതി അനുമതി ശ്രീലക്ഷ്മി സ്റ്റോൺ ക്രഷർ എന്ന സ്ഥാപനത്തിന് ജില്ലാ പരിസ്ഥിതി ഇംപാക്ട് അസസ്സ്മെന്റ് അതോറിറ്റി, കണ്ണൂർ നിന്നും ഓർഡർ നമ്പർ 14/KNR/2017/DEIAA തീയതി 01-7-2017 ഓർഡർ പ്രകാരം ലഭിച്ചിരിക്കുന്നു. ഈ ഓർഡറിന്റെ പകർപ്പ് ജില്ലാ പരിസ്ഥിതി കാലാവസ്ഥ വ്യതിയാന വകുപ്പിൽ ലഭ്യമാണ്. <http://environmentclearance.nic.in> എന്ന വെബ് സൈറ്റിൽകൂടിയും പകർപ്പ് കാണാവുന്നതാണ്.

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NF 349  
NH 671  
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mortgagee shall be void and ineffective  
after the lapse of 15 days of the  
publication of the notice.  
Aji. S., Advocate  
Legal Advisor, LIC HFL, Thrissur  
Ph : 9446143066, 0487- 2325080

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**PUBLIC NOTICE**

**NOTICE**

This is to inform to the General Public that, the proposed Quarry Project at Survey No. 1561, at Kanichar Village, Kanchar Panchayat, Iritty Taluk, Kannur District, Kerala being developed by M/s Srilakshmi stone crusher is accorded with ENVIRONMENTAL CLEARANCE by District Environment Impact Assessment Authority, Kannur vide Order No. 14/KNR/2017/DEIAA dt. 01/07/2017 and the copy of the Environmental Clearance is available with the office of District Environment Impact Assessment Authority (DEIAA), Kannur and may also be seen on the website of the Authority at <http://environmentclearance.nic.in>

**PEST CONTROL**

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Advertisement in Newspaper

## Annexure No.7

**M/s SRI LAKSHMI STONE CRUSHER**

BUILDING NO.VIII/14, 27TH MILE, PO POOLAKUTTY, NEDUMPOYIL  
KANNUR, KERALA-670650 Ph:0490-2448400

The Secretary,  
Kanchi Panchayat,  
Iritty Taluk, Kannur District,  
Kerala.

Dt. 03/07/2017

Sub:- Environmental Clearance (E.C.) – Proposed Quarry Project at  
Survey No. 1561 , Kanichar Village, Kanichar Panchayat, Iritty  
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 Survey No. 1561 , Kanichar Village, Kanichar Panchayat, Iritty Taluk, Kannur District, Kerala vide Order No. 09/KNR/2017/DEIAA dt. 01/07/2017.
2. We hereby submit a self attested copy of the Environment Clearance Order No. 09/KNR/2017/DEIAA dt. 01/07/2017. This is in compliance to the condition of the E.C. Order.

Kindly acknowledge the receipt of the same.

Thanking you,

Yours respectfully,  
for Sri Lakshmi stone crusher,

  
C.G George,  
(Managing Partner)

Encl: As above

  
SUTHESAN MAMMALI  
SECRETARY,  
Kanichar Grama Panchayat  
Kannur - 670674  
Ph: 0490 2412065, 9496049152

Copy of Acknowledgement

## Annexure No. 8

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

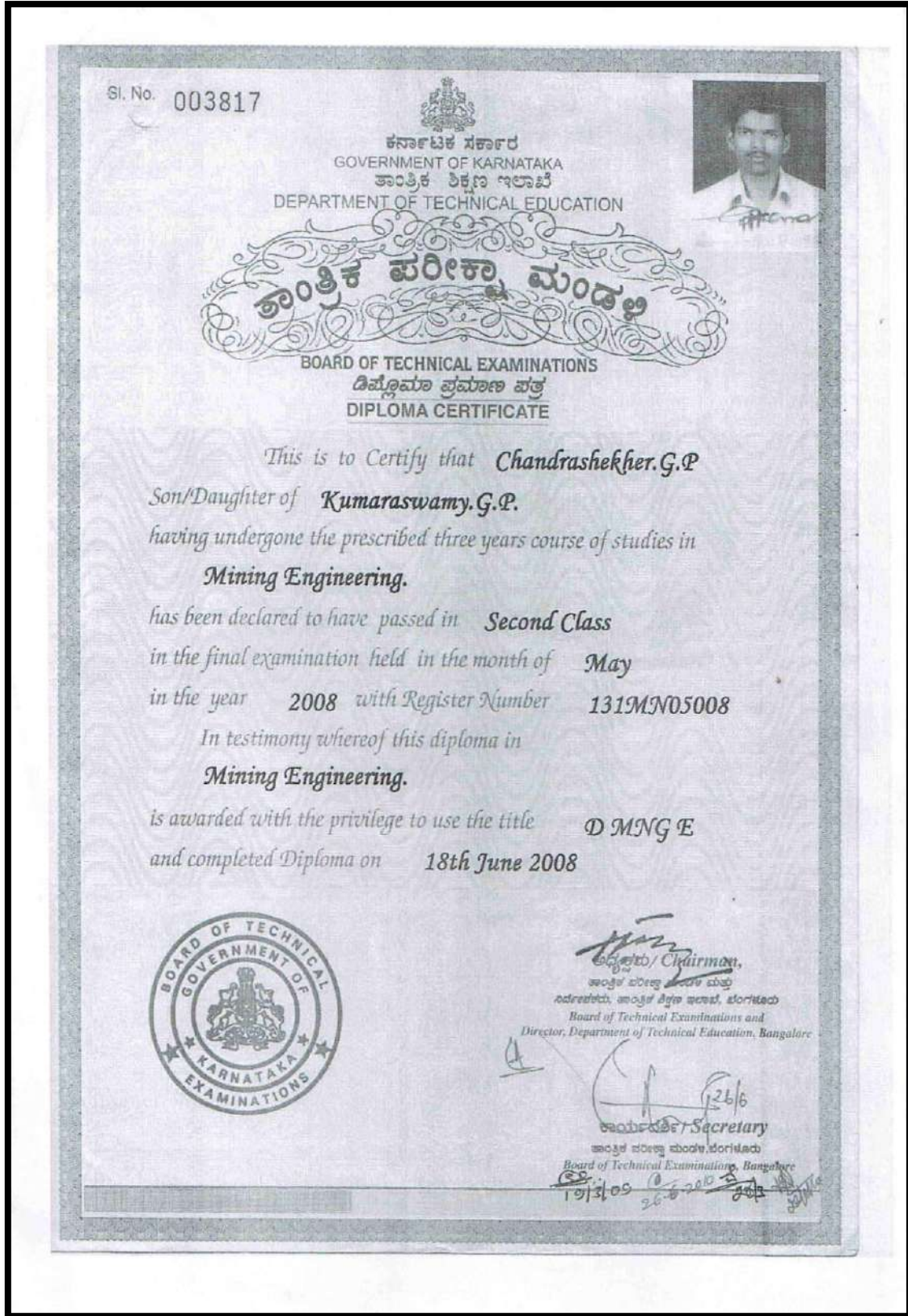
To:  
The District Magistrate ,Kannur District,

1	a. Name of Mine	M/S Srilakshmi Stone crusher Office: 27 th Mile , Poolakutty P.O, Nidumpoyil – 670 650. Kannur District, Kerala State.
	b. Name of Mineral	Granite Building Stone
	c. Situation of Mine	Village: Kanichar Village, Post office: Poolakutty P.O Town: Nidumpoyil, Taluk:Iritty District: Kannur, State: Kerala State.
	d. Date when work was first started	02.01.2008
2	a. Name & postal address of present owner(s)	Shri.C.G.George , Managing Partner Srilakshmi stone crusher 27 th mile Poolakutty PO Iritty Taluk, Kannur District, Kerala State – 670 650
	b. Name & postal address of agents if any	----
3	a. Name & postal address of manager if any	Mr.Chandrasekhara G P , S/o Kumaraswamy G P Deogiri PO Sandur, Bellary , Karnataka -583112
	b. His age	32 Years
	c. His qualification	Diploma in mining
	d. His experience in Mining	4 years in open casting
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
6	a. Nature, amount and kind of explosives used if any	Nitrate Mixture Slurry emulsion explosives Class 2 division 0 Class 6 division 3
	b. Date when explosives were first used	06.09.2016

Form D



## Annexure No. 09



Certificate of Mines manager

## Annexure No. 10

**TEST REPORT**

Test Report No: 20201221/R110	Date: 26.12.2020	Page 1 of 1
-------------------------------	------------------	-------------

**CUSTOMER DETAILS**

Customer Name & Address	<b>Mr. C.G George</b> Managing Partner M/s Sri. Lakshmi Stone Crusher 27 th mile, Poolakutty, Nidumpoyi, Kannur District
Customer Reference	Test Request dt: 21.12.2020

**SAMPLE DETAILS**

Product Category	Atmospheric Pollution	Sample Code	20201221/S110
Sample Name	Ambient Air	Sample Received on	22.12.2020
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	22.12.2020
Sampled by	Lab Authorized Sampler	Test Completed on	24.12.2020

**DETAILS OF SAMPLING**

Sampling Location	South West Boundary	Date of Sampling	21.12.2020
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	70%

**SAMPLING SITE DETAILS**

Survey No.	1561		
Village	Kanichar	Taluk	Iritty
District	Kannur	State	Kerala

**TEST RESULTS- CHEMICAL PARAMETERS**

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ Standards
1	Particulate Matter, PM <sub>10</sub>	IS 5182 (Part 23):2006	µg/m <sup>3</sup>	70.4	Max 100
2	Particulate Matter, PM <sub>2.5</sub>	EPA 40 CFR (Part 50) Appendix - L	µg/m <sup>3</sup>	39.8	Max 60
3	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 (Part 2): 2001 RA 2017	µg/m <sup>3</sup>	<2.00	Max 80
4	Oxides of Nitrogen as NO <sub>2</sub>	IS 5182 (Part 6): 2006 RA 2017	µg/m <sup>3</sup>	<2.00	Max 80

Remarks:

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

  
**Shency Joy**  
Dy. TM Chemical

Checked by:



  
**Laiju P. N.**  
Laboratory Head

Authorized Signatory

**Standard S 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: sealab@gmail.com

Result of Air



## Annexure No.11

**TEST REPORT**

Test Report No: 20201221/R111	Date: 26.12.2020	Page 1 of 1
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**CUSTOMER DETAILS**

Customer Name & Address	Mr. C.G George Managing Partner M/s Sri. Lakshmi Stone Crusher 27 th mile, Poolakutty, Nidumpoyi, Kannur District
Customer Reference	Test Request dt: 21.12.2020

**DETAILS OF MONITORING**

Product Category	Atmospheric Pollution	Sample Code	20201221/S111
295Sample Name	Ambient Noise	Monitoring Commenced on	21.12.2020/ 06:00
Monitoring Location	North Side Boundary	Monitoring Completed on	22.12.2020/ 06:00
Test Method	IS 9989:1981 RA:2008	Monitored by	Lab Authorized Sampler

**MONITORING SITE DETAILS**

Survey No.	1561		
Village	Kanichar	Taluk	Iritty
District	Kannur	State	Kerala

**MONITORING RESULTS - Leq**

TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	36.3	14:00	48.6	22:00	35.2
07:00	38.9	15:00	49.0	23:00	35.7
08:00	43.0	16:00	50.1	24:00	35.4
09:00	46.4	17:00	50.5	01:00	36.0
10:00	48.6	18:00	45.3	02:00	35.7
11:00	51.6	19:00	41.9	03:00	36.4
12:00	49.0	20:00	38.1	04:00	35.4
13:00	48.2	21:00	37.7	05:00	37.1

**TEST RESULTS**

Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	47.1
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	35.7

Remarks:

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

  
Shency Joy  
Dy. TM Chemical

Checked by:



  
Laiju P. N.  
Laboratory Head  
Authorized Signatory

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## Result of Noise Level

## Annexure No. 12

**TEST REPORT**

Test Report No: 20201221/R112	Date: 26.12.2020	Page 1 of 2
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**CUSTOMER DETAILS**

Customer Name & Address	<b>Mr. C.G George</b> Managing Partner M/s Sri. Lakshmi Stone Crusher 27 th mile, Poolakutty, Nidumpoyi, Kannur District
Customer Reference	Test Request dt: 21.12.2020

**SAMPLE DETAILS**

Product Category	Water	Sample Code	20201221/S112
Sample Name	Bore Well	Sample Received on	22.12.2020
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	27 °C
Sample Quantity & Packing	1L & 100ml Plastic Bottle	Test Commenced on	22.12.2020
Sampled by	Not Drawn by Laboratory	Test Completed on	26.12.2020

**SAMPLING SITE DETAILS**

Survey No.	1561		
Village	Kanichar	Taluk	Iritty
District	Kannur	State	Kerala

**TEST RESULTS- CHEMICAL PARAMETERS**

Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500 :2012
1	Colour	IS 3025 (Part 4):1983 RA 2017	Hazen	1.00	Max 5
2	Odour	IS 3025 (Part 5):2018	---	Agreeable	Agreeable
3	Turbidity	IS 3025 (Part 10):1984 RA 2017	NTU	0.20	Max 1
4	pH	IS 3025 (Part 11):1983 RA 2017	---	6.82	6.50 – 8.50
5	Conductivity	IS 3025 (Part 14):1984 RA 2019	µS/cm	102	---
6	Total Dissolved Solids	IS 3025 (Part 16):1984 RA 2017	mg/L	66.0	Max 500
7	Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part 21):2009 RA 2019	mg/L	24.0	Max 200
8	Calcium as Ca	IS 3025 (Part 40):1991 RA 2019	mg/L	6.40	Max 75
9	Magnesium as Mg	IS 3025 (Part 46):1994 RA 2019	mg/L	1.95	Max 30
10	Chloride as Cl	IS 3025 (Part 32):1988 RA 2019	mg/L	18.1	Max 250
11	Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23):1986 RA 2019	mg/L	21.9	Max 200
12	Iron as Fe	IS 3025 (Part 53):2003 RA 2019	mg/L	0.14	Max 1
13	Sulphate as SO <sub>4</sub>	IS 3025 (Part 24):1986 RA 2019	mg/L	1.10	Max 200

  
**Shency Joy**  
Dy. TM Chemical  
Checked by:

  
**Salini T. S.**  
Microbiologist  
Authorized Signatory



  
**Lajju P. N.**  
Laboratory Head  
Authorized Signatory

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

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**TEST REPORT**

Test Report No: 20201221/R112	Date: 26.12.2020	Page 2 of 2
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TEST RESULTS - BIOLOGICAL PARAMETERS					
Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500 : 2012
1	Total Coliform Bacteria	IS 15185 : 2016	----	Presents/100 ml	Absent/100 ml
2	E coli	IS 15185 : 2016	----	Absent/100 ml	Absent/100 ml

Remarks:

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

  
**Shency Joy**  
 Dy. TM Chemical  
 Checked by:

  
**Salini T. S.**  
 Microbiologist  
 Authorized Signatory



  
**Laiju P. N.**  
 Laboratory Head  
 Authorized Signatory

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Result of Water