

# COMPLIANCE REPORT

M/S. Sri Lakshmi Stone Crusher  
(Quarry project)

Kannur District

Kerala

April 2019 – September 2019

**M/s SRI LAKSHMI STONE CRUSHER**  
BUILDING NO.VIII/14, 27TH MILE, PO POOLAKUTTY, NEDUMPOYL  
KANNUR, KERALA-670650 Ph:0490-2448400

Dt.17-12-2019

**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. 09/KNR/2017/ DEIAA

Sub :- Environment Clearance – Quarry project at Survey No. 1561,  
Kanichar Village, Iritty Taluk, Kannur District, Kerala – Compliance  
Report – First 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  
First half (April 2019 – September 2019) to the specific and general conditions of the  
Environment Clearance order is enclosed.

Thanking you,  
Yours respectfully,

  
Managing Partner

M/s. Sri Lakshmi Stone Crusher

Copy to :-

Member Secretary, SEIAA, Trivandrum

Member Secretary, DEIAA, Kannur

OR

RDO , Kannur

Covering letter  
**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 Firsthalf to the specific conditions and general conditions of the Environmental Clearance order for the period of **April 2019 - September 2019** is being submitted.

The quarrying activity was closed down from 15-08-2019 to 24 09-2019 due to heavy rain and the Mining and Geology Department has issued stop memo due to the proximity of wild life sanctuary in 10 km of vicinity of quarry project. At present the project is not in operation.

# **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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In the quarry the project proponent has appointed a mines manger in order 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 facilities like housing, food, water and sanitation to the workers are provided in the site. The project kept 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.

<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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All blasting activities are carrying out with the stipulated guidelines of explosive department and other concerned agency. Blasting is carrying out in controlled manner by using ordinary delayed detonators. 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-mineralized area by planting suitable native species in</b>	<b>Being Complied</b>
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	<b>consultation with the local DFO/Agriculture department.</b>	
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In order to provide a green belt, the project proponent has taken the suggestion of agricultural department to plant the native species. The project proponent has started to plant various saplings in the project site to develop a green belt around the project area. Avenue tress also planted along the road side to minimise the dust emission. More than 120 saplings were planted in the 6 months of period.

<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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The drainage constructed was properly maintaining for arresting the silt in storm water runoff. The project has constructed De siltation chambers to arrest the quarry waste entering in to the public drain and stream.

<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 lease area, the project has done fencing around the lease area. This was done by barbed metal wire. The fencing is properly maintaining.

<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. It was submitted at DEIAA

<b>08</b>	<b>Appropriate sign boards should be displayed.</b>	<b>Complied</b>
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Appropriate sign boards are installed 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 warning to the labours and community people prior to the blasting in quarry, the project installed warning alarms as per the stipulation of Explosive department 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 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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A Separate small plot has demarcated to preserve the endemic species by the project proponent. Various saplings were started to plant by the project proponent 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 is using ordinary delayed detonator for blasting therefore there is no issue with fly rock in the community and the project is also assure the maximum PPV is under 10.

<b>15</b>	<b>The green belt shall be provides around the periphery.</b>	<b>Being complied</b>
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The project proponent has started to plant various saplings to 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 is progressing by creating benches of 5m width and 5m height. The extraction of minerals is as per mining plan.

<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 project proponent has deployed JCB like machines to remove the loose or hanging mineral boulders on the side wall. The labours are working on the bottom of bench only after clearing such loose minerals from the side wall.

<b>18</b>	<b>Permanent boundary pillars should be fixed by the proponent before commencing quarrying</b>	<b>complied</b>
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To demarcate the mining area, permanent Boundary pillars were fixed at each corner of the lease area. That was done before the commencing mining activities.

<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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The quarry project was closed down from 15-08-2019 to 24-09-2019 due to rain. That was by the direction of revenue officials.

<b>20</b>	<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</b>	<b>Being Complied</b>
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	<b>the dump slopes with no disturbance to the stability of the slopes.</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.

<b>21</b>	<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 is stacking in a designated place, the project proponent has started to plant various grass and shrubs on the dump. This measure can prevent sliding and soil erosion.

<b>22</b>	<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.

<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>Being complied</b>
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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.

24	<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>complied</b>
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The project is being constructed a retaining wall with stone rubbles at the bottom of the slope. This can prevent sliding and slumping.

# **COMPLIANCE REPORT**

## **(GENERAL CONDITIONS)**

### **HEALTH**

<b>01</b>	<b>First Aid kit provide in the work site. It shall be periodically maintained property .some labourers shall be trained on First Aid.</b>	<b>Complied</b>
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Project has kept first aid box in the project site. The project has given training for the selected labours in the project site to use first aid box. 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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To reduce the emission of dust, the project proponent splashes water on haulage roads and loading and un loading point. This is being done frequently.

<b>04</b>	<b>Sanitary type of latrines and urinals should be provided.</b>	<b>Complied</b>
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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. The 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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The approach road has been properly maintaining by the project proponent to arrest the dust emission and easy transportation.

# **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:**

Even though it is not specified in KMBR/KPBR to collect rain water in mining area proponent has developed a rain water harvesting pond in the project site. The collection capacity of existing pond is more than sufficient. There is also a second pond is existing for rain water harvesting. Rain water is mainly used for gardening, wetting of roads, Washing of sand and splashing for contain dust emission. Photograph showing RWH pond is attached as **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) was formed with Mr. C G George as head of the monitoring cell. The EMC meeting convenes regularly to evaluate and monitor quarrying work in connection with the specific and general conditions stipulated in the Environmental Clearance (EC) order. The details of the monitoring cell are given in **Table No.1**

**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:**

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. 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:**

As part of energy conservation and generation, the project proponent has installed solar panels on the labour quaters.

<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:**

The project 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. 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 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. The project proponent has started to plant various saplings in the project site.

07	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:**

The project is intending to retain 10 percent of total excavated pit as rain water storage area after closure of the mine. 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.

08	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) 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 first half is mentioned in **Annexure No.12**.

09	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 Environmental Clearance and lease obtained. The complete installation of barbed metal wire fencing around the mining area is with height of 5 ft. This fencing can also prevent the falling of animals and other living creature

<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:**

The alarm can intimate the general public and labours that the blasting is going to happen. To give warning to the labours and community people prior to the blasting in quarry, as per the stipulation of Explosive department, the project has using warning alarm 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 is limited to day time only as per KSPCB guidelines. The proposed working time of the quarry will be from 7.00am to 6.00 pm.

<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 blasting will be done in controlled manner by using ordinary and electric delayed detonators. All blasting activities will carried out under the supervision of qualified persons 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 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 has tarred the access road to the quarry site. The project will splash water

on the road to arrest the dust production during summer season. Photograph showing Access 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:**

In a building stone quarry project, the overburden and topsoil need to extract during the time of mining, these natural resources will be 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. 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 is the ining plan/specific conditions.	<b>Complied</b>
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**Compliance:**

The quarrying activity in the project is progressing by creating benches of 5m width and 5m height. 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 is yet to use mats during the time of blasting. The project is using ordinary delayed detonator for blasting therefore there is no issue with fly rock in the community and the project is 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:**

Maximum depth of Mining will not exceed beyond 10 meter or not below the level of the nearest stream bed, whichever is less.

<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:**

No mining operation will carry out 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 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:**

The project proponent has provided adequate Personnel Protective Equipments (PPE) such as helmets, ear muffs, safety belts, gloves, etc. to ensure the safety of workers in working 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:**

The project assure that the trucks are covered to avoid dust emission from the vehicle while transportation of materials.

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

The project started to plant various saplings in the project area as a compensation of loss of trees while the project is 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 volume of used oil is used as lubricant in the project site. The project proponent is using the used oil as lubricant for machineries and other equipments. The spend oil will be sold only to the approved recyclers, some time it is using as lubricant in the project site.

<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:**

The magazine situated in an isolated place specified and approved by the explosives department. As per the stipulation of competent authority, the project has

been storing the explosives in magazine. The area surrounded to the magazine was fenced with barbed metal wire. The photograph o 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 prevent possible fly rock and vibration to nearby houses, 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:**

The project has left more than 100 meters as buffer distance from 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 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**

Name of the Statutory approval	Name of the Statutory authority
"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>	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>Noted</b>
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**Compliance:**

In case of any change(s) in the scope of the project, the proponent will apply for fresh appraisal to get the Environmental Clearance.

<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:**

To enhance safety and eco friendly mining, the project is willing to incorporate all such measures if the authority instructs to add additional safeguard measures subsequently, the project will be complied with.

<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 and 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>	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	<b>Complied</b>
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	<b><u>of the Authority at <a href="http://www.seiaakerala.org">www.seiaakerala.org</a>. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and the copy of the same signed in all pages should be forwarded to the office of this authority as confirmation.</u></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**

<b>Sl. No.</b>	<b>News paper</b>	<b>Language</b>	<b>Date of edition</b>
<b>1</b>	Mangalam	Malayalam	21-10-2017
<b>2</b>	The Hindu	English	21-10-2017

<b>36</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>Complied</b>
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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 latter to anyone. At present the project 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	<b>Complied</b>
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	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.	
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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 both in hard copy as well as mail. The Monitoring result of Ambient air. Sound and water is attached as **Annexure Nos 8, 10 & 11.**

<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 specific conditions of the environmental clearance prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font was installed. Sign board is also displayed showing lease area and boundaries at the entrance of the quarry. The photograph of metallic board is attached as **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

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

41	The project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any originating from the mine lease shall be taken.	<b>Noted</b>
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**Compliance:**

The project proponent will take all necessary safeguards to prevent contamination of stream as well as ground water. 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. There is no stream originating from the mining area.

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 un loading 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 (NAQQS) by a NABL approved laboratory. The project is intending to increase the splashing of water at unloading and transfer points. This activity can reduce the fugitive emission.



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

To prevent the soil erosion, the top soil and overburden is stacking 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 as per the direction of District Environment Impact Assessment Authority (DEIAA).

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 indenting to create de siltation chemebbers 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 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 splashes water in critical area to reduce the dust emission such as loading and unloading points, haul roads and transfer points.

47	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>	<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.

<b>50</b>	<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>
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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 will extent all possible cooperation to the officers form regional office of MoEF &CC and can produce all data/information/reports when they are asking for the same.

<b>51</b>	<b>Any appeal against this environmental clearance shall lie with</b>	<b>Noted</b>
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	the National Green Tribunal, if preferred within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.	
52	Concealing the factual data or submission of false/ fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted

53	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.	Noted
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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.	Noted
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**Compliance:**

The project 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	Noted
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	<b>earlier.</b>	
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<b>56</b>	<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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<b>57</b>	<b>The mining operation shall be restricted to above ground water table and is should not intersect ground water table.</b>	<b>Noted</b>
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**Compliance:**

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

<b>58</b>	<b>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>	<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 has conducting in authorized pollution checking centre.

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

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

61	<b>Occupational health surveillance programe 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>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 plantain**



**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**

# ANNEXURE



## Annexure No.1



**KERALA STATE POLLUTION CONTROL BOARD**

FILE NO. :PCB/KNR/ICO/3200/2015  
Date of issue :2017-07-07

**CONSENT VARIATION ORDER**

Consent No : PCB/KNR/ICO/424/2016

Ref : 1. PCB/KNR/ICO/424/2016 dated 20/05/2016 2. Environmental Clearance No.09/KNR/2017/DEIAA dated 01/07/2017 and valid upto 30/06/2020

The ' Integrated Consent to Operate' issued as per reference above to M/s SREELAKSHMI STONE CRUSHER,27TH MILE, P.O.POOLAKKUTTY,VIA.NEDUMPOYIL-670650 is hereby modified & issued to M/s SREELAKSHMI 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	AREA OF QUARRYING (HECTARE)	0.9898
2	Capital Investment(in Lakhs)	25
3	VALIDITY	30/06/2020

**II. CONDITIONS**

5.2 Application for renewal of consent shall be submitted before 31/03/2020.  
 5.8 Deleted.  
 5.9 Deleted.  
 5.12 Deleted.  
 5.13 Deleted.  
 5.14 Deleted.

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

Page1

DATE :07/07/2017

SIGNATURE & SEAL OF ISSUING AUTHORITY

*Kummmr*

**Krishnan M.N**  
Environmental Engineer

**Dist. Office**  
**Kannur**


To  
SRI. C.G. GEORGE MANAACHA PARTNER, SREELAKSHMI STONE CRUSHER, 27TH MILE,  
POOLAKUTTY.P.O., NEDUMPOYIL (VIA), KANNUR DT - 690650

**K E R A L A**

**Page 2**

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/Envr 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

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

Transferred from Shri C.M. Mahesh Managing Partner

**अनुज्ञप्ति प्रारूप 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 I 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 रुपए (Annual Fee Rs): 2400/-

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, Pin Code - 670650

को अनुज्ञप्ति अनुदत्त की जाती है।

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

3. अनुज्ञप्ति निम्नलिखित प्रयोजनों के लिए विधिमान्य है।  
Licence is valid only for the following purpose. 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. 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	100 Kg.
2.	Safety Fuse	6, 1	0	1650 Mtrs
3.	Electric and/or Ordinary Detonators	6, 3	0	1000 Nos.

(ख) किसी एक कैलेंडर 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)] : 3 times as above.

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञप्ति 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) 05/10/2017

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

7. अनुज्ञप्ति परिसर में निम्नलिखित सुविधाएं अंतर्निहित 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 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.

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 शर्तों और अतिरिक्त शर्तों।  
Conditions and Additional Conditions of this licence signed by the licensing authority.

3. दूरी प्रारूप DE-2 | Distance Form DE-2.

9. यह अनुज्ञप्ति तारीख 31 मार्च 2017 तक विधिमान्य 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 उपबर्णित इस अनुज्ञप्ति की शर्तों का अधिकतम करने या यदि अनुज्ञप्ति 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 - 06/09/2016

उप मुख्य विस्फोटक नियंत्रक | Dy. Chief Controller of Explosives  
उ. सु. वि. नि., एर्नाकुलम  
D. C. C. E., Ernakulam



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

नवीनीकरण के पृष्ठों 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
14/03/2017	31/03/2018	Sd/- Dy. Chief Controller of Explosives, Ernakulam

Copy of Explosive

## Annexure No. 4

			
ലൈസൻസ് നമ്പർ. <u>A2.1080/19.</u> തീയതി. <u>02.04.2019.</u>			
<u>കിരിച്ചാർ</u> ഗ്രാമ പഞ്ചായത്തിൽ നിന്നും			
1994 ലെ കേരളാ പഞ്ചായത്ത് രാജ് ആക്ട് ( 1994 ലെ 13 ) 232, 233, 234, 254 എന്നീ വകുപ്പുകളും അതേ തുടർന്നുള്ള ചട്ടങ്ങളും അനുസരിച്ചു നൽകുന്ന			
<b>ഡി &amp; ഒ ലൈസൻസ്</b>			
ലൈസൻസിയുടെ പേരും മേൽവിലാസവും	സി.ജി. ജോർജ്ജ്. മിഷനറി റോഡ്, തിരുച്ചിറപ്പുറം തിരുവ 27 <sup>th</sup> ഓൾഡ് റോഡ് വി.ന. ഓട്ടോപാലിൽ 670650		
സ്ഥാപനത്തിന്റെ പേരും, സ്ഥലനാമവും	തിരുച്ചിറപ്പുറം തിരുവ. 27 <sup>th</sup> ഓൾഡ് റോഡ്.		
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	കിരിച്ചാർ ഉറി നടുത്തുകിട്ട്		
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡ് നമ്പരും	ഹർജ്ജ് നമ്പർ 1561		
ലൈസൻസ് കാലയളവ്	(2019 - 20) 1.4.19 മുതൽ 31.03.20 വരെ		
ഈടാക്കിയ ലൈസൻസ് ഫീസ്	<table border="1"> <tr> <td>         5000/- രൂപ       </td> <td>         രസീത് നമ്പർ          118020102483-4:27.02.19       </td> </tr> </table>	5000/- രൂപ	രസീത് നമ്പർ 118020102483-4:27.02.19
5000/- രൂപ	രസീത് നമ്പർ 118020102483-4:27.02.19		
ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരീക്ഷണ പത്രങ്ങളുടെ വിശദാംശങ്ങൾ ( നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാരസ്ഥാനം)	① മലിനീകരണ മിഷനറി റോഡ് കിഴക്കു സിക്വെൻസ് PCB/KNR/100/3200/2015. ② കിരിച്ചാർ വില്ലേജ് മിഷനറി റോഡ് കിഴക്കു സിക്വെൻസ് ③ റെഗുലേഷൻ കമ്മിറ്റി റിപ്പോർട്ട് കിഴക്കു സിക്വെൻസ് E/SO/KL/22/11K96164) dt: 15/02/19 ④ കിരിച്ചാർ മിഷനറി റോഡ് കിഴക്കു സിക്വെൻസ് ⑤ പാറമുഖം മിഷനറി റോഡ് കിഴക്കു സിക്വെൻസ് EXAM/EXEMPT/FM/1R/1684/121 ⑥ PESO കിഴക്കു സിക്വെൻസ്		
	സെക്രട്ടറി <b>BABU THOMAS</b> Kanichar Gram Panchayat P.O. Kanichar - 370674		

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. 01/2017-18/ MM/ GS/OS/DOC/M-649/17 Dated 17.07.2017


Shri. C.G.GEORGE, MANAGING PARTNER, SRILAKSHMI STONE CRUSHER, 27<sup>TH</sup> MILE, POOLAKUTTY.P.O. 670 650 is hereby permitted to extract and remove **GRANITE BUILDING STONE** (Name of mineral) from an area of **0.9898 Hectare** in Sy.No. **1561** 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 : 20000 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 : 2500 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) : Sri.Puthukkudi Chathamballi Raghuraman, Krishna, West Ponniyam, Thalassery

Date of expiry of permit : 16.07.2018

**Details of fee remitted**

Item	Chalan No. & Date	Amount	Name of Treasury
Application fee	KL006219922201617M Dt. 13.03.17	1000	DT, Kannur
Royalty	KL004125231201718M Dt. 17.07.17	480000	DT, Kannur
Surface Rent	KL004133694201718M Dt. 17.07.17	200	DT, Kannur
QSF remitted, if any	TR 5 Book No. 2093, Receipt No.209220 Dt. 17.07.2017	48000	DT, Kannur
Environment Clearance, if any	09/KNR/2017/DEIAA Dt. 01.07.2017, Kannur		



To  
Shri. C.G.GEORGE,  
MANAGING PARTNER,  
SRILAKSHMI STONE CRUSHER,  
27<sup>TH</sup> MILE, POOLAKUTTY.P.O. 670 650

Copy to:

- District Collector, (with C/L).
- Sri.Puthukkudi Chathamballi Raghuraman, Krishna, West Ponniyam, Thalassery

Signature and Address of the Issuing Authority  
**GEOLOGIST**  
Department of Mining & Geology,  
District Office  
KANNUR - 670 002  
*17.7.2017*

Copy of Lease

## Annexure No.6

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**തമിഴ് ഭാഷയിൽ, അട്ടുകാൽ**  
**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, കണിച്ചാൽ വില്ലേജിലുംപ്പെട്ട സർവ്വേ നമ്പർ 1561 -ൽ പാറ ഖനനം ചെയ്യുന്നതിനുവേണ്ടി പരിസ്ഥിതി അനുദത്തി 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.

NA 370  
NC 622  
NF 349  
NH 671  
NL 533

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5684 6  
8898 9  
0194 0  
2387 2  
4858 5  
6651 6

**IPCTC ലാൻഡ് റെഗുലേഷൻ**

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**IMAGE**  
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aminators, Paper  
h.2353765  
**ERS**  
**ML**  
**AND MOVERS LTD.**  
Largest Mover  
**300 300**

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>

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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,  
Kanchihar 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  
Kanichar - 670674  
Ph: 0490 2412065, 9496049152

Copy of Acknowledgement



## Annexure No. 8

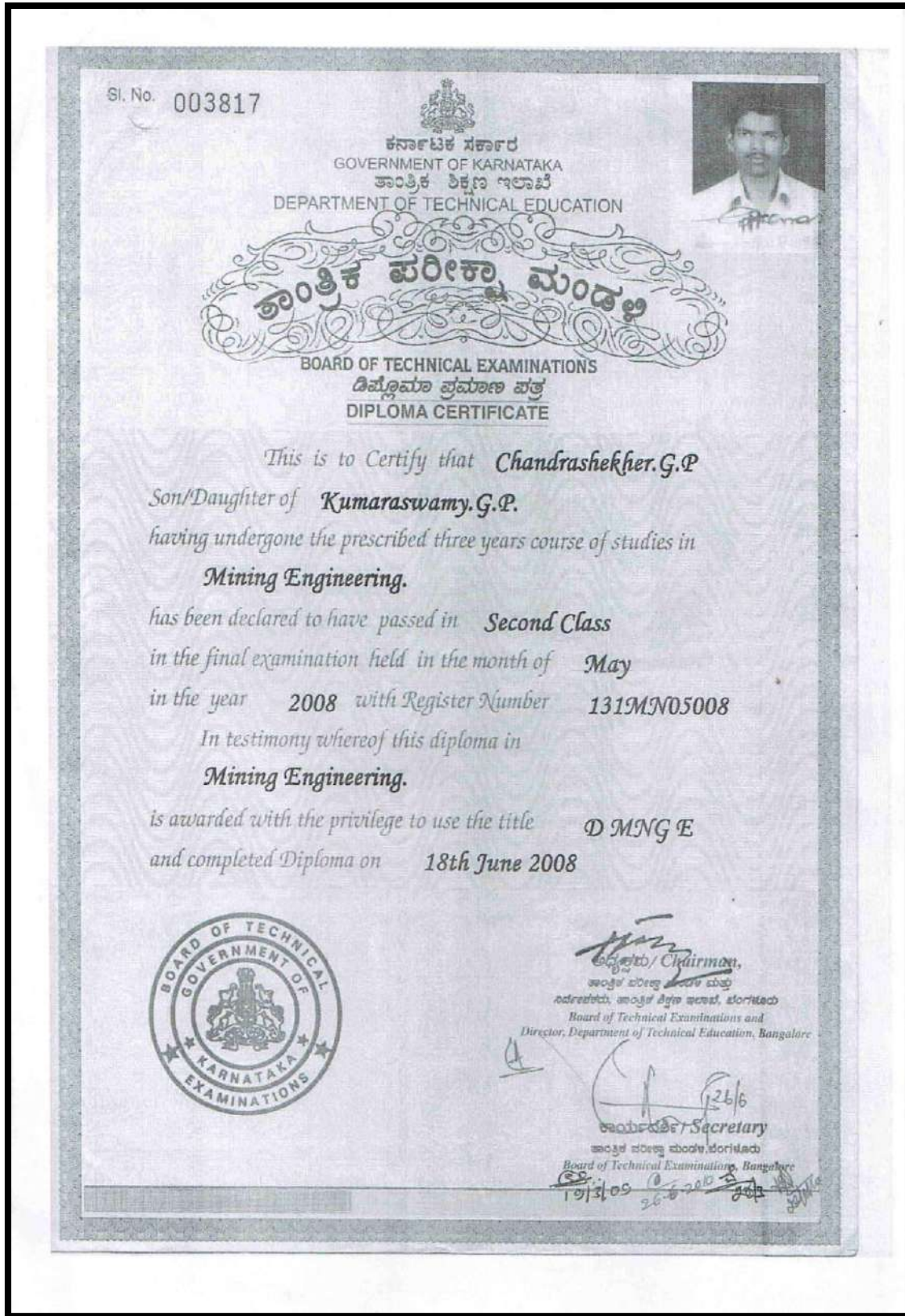
**FORM D**  
[See clause (a) of rule 10 and clause (m) of sub-rule (1) of rule 40]  
**NOTICE**

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 metersfrom 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 emulasion 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

**Standard<sup>S</sup>**  
Environmental Monitoring

**TEST REPORT**

Test Report No: TC540219000002510F Date: 13.06.2019 Page 1 of 1

**CUSTOMER DETAILS**

Customer Details	Name & Address	Mr. C.G George Managing Partner M/s Sri. Lakshmi Stone Crusher 27 th mile, Poolakutty, Nidumpoyi, Kannur District
Location of Site	Monitoring Site	27 th mile
	Survey No	1561
	Village	Kanichar
	Taluk	Iritty
	District	Kannur
State	Kerala	
Customer Reference	Test Request form dated 07.06.2019	

**SAMPLE DETAILS**

Source of Sample	Ambient Air	Sample Code	TC540219000002510F
Location of Monitoring	South West Side	Sampled By	Laboratory
Date of Monitoring	07.06.2019	Test Started On	10.06.2019
Sample Received On	10.06.2019	Test Completed On	11.06.2019
Humidity	64 %	Sampling Procedure	IS 5182 Part V & XIV

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>	40.1	100
02	Particulate matter (PM <sub>2.5</sub> )	EPA 40 CFR Part 50 Appendix – L	µg/m <sup>3</sup>	17.6	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

*Dipa*  
Authorized Signatory

*Rija Joseph*  
Technical Manager


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

**Standard<sup>S</sup> Environmental & Analytical Laboratories**  
Accreditation and Approval: NABL as per ISO 17025: 2005 & "A" Grade laboratory of KSPCB  
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, info@sealabs.in

## Result of Air




## Annexure No.11



**Standard<sup>S</sup>**  
Environmental Monitoring

**TEST REPORT**



NABL(TC-5402)

Test Report No: TC540219000002511F

Date: 13.06.2019

Page 1 of 1

CUSTOMER DETAILS		
Customer Details	Name & Address	Mr. C.G George Managing Partner M/s Sri. Lakshmi Stone Crusher 27 th mile, Poolakutty, Nidumpoyi, Kannur District
Location Of Site	Survey No	1561
	Village	Kanichar
	Taluk	Iritty
	District	Kannur
	State	Kerala
Customer Reference		Test Request Form Dated 07.06.2019

SAMPLE DETAILS	
Source of sample	Ambient Sound Level
Sample Code	TC540219000002511F
Location of Monitoring	North Side Boundary
Date of Monitoring	07.06.2019

DAYTIME	RESULT	NIGHTTIME	RESULT
06.00 Hrs	36.0 dB (A)	23.00 Hrs	33.1 dB (A)
07.00 Hrs	38.6 dB (A)	00.00 Hrs	35.5 dB (A)
08.00 Hrs	42.7 dB (A)	01.00 Hrs	36.1 dB (A)
09.00 Hrs	46.0 dB (A)	02.00 Hrs	35.8 dB (A)
10.00 Hrs	48.2 dB (A)	03.00 Hrs	36.5 dB (A)
11.00 Hrs	51.2 dB (A)	04.00 Hrs	35.5 dB (A)
12.00 Hrs	48.6 dB (A)	05.00 Hrs	37.2 dB (A)
13.00 Hrs	47.9 dB (A)		
14.00 Hrs	48.2 dB (A)		
15.00 Hrs	48.6 dB (A)		
16.00 Hrs	49.7 dB (A)		
17.00 Hrs	50.1 dB (A)		
18.00 Hrs	44.9 dB (A)		
19.00 Hrs	41.6 dB (A)		
20.00 Hrs	37.8 dB (A)		
21.00 Hrs	37.4 dB (A)		
22.00 Hrs	34.9 dB (A)		

RESULTS	
Noise Level (Leq) Daytime	46.7 dB (A)
Noise Level (Leq) Nighttime	35.8 dB (A)

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

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

*Mija Joseph*  
Technical Manager

*Daya*  
Authorized Signatory


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

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

Accreditation and Approval: NABL as per ISO 17025: 2005 & "A" Grade laboratory of KSPCB  
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, info@sealabs.in


## Result of Sound

## Annexure No. 12



**Standard<sup>S</sup>**  
Environmental Monitoring

**TEST REPORT**



NABL(TC-5402)

Test Report No: TC540219000002512F		Date: 13.06.2019		Page 1 of 1	
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CUSTOMER DETAILS					
Customer Details		Name & Address Mr. C.G George Managing Partner M/s Sri. Lakshmi Stone Crusher 27 th mile, Poolakutty, Nidumpoyi, Kannur District			
Location of Site		Survey No		1561	
		Village		Kanichar	
		Taluk		Iritty	
		District		Kannur	
		State		Kerala	
Customer Reference		Test Request Form dated 07.06.2019			
Monitoring Site		27 th mile			

SAMPLE DETAILS					
Sample Code	TC540219000002512F	Sample Received On	10.06.2019		
Sample Name	Water	Sampling Procedure	---		
Sample Description	Borewell	Sampling Location	North West		
Identification By Customer	---	Sample Condition	Good		
Sampled On	07.06.2019	Test Started On	10.06.2019		
Sampled By	Customer	Test Completed On	13.06.2019		

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	0.90	1.00 (Max)
04	pH	IS 3025 Part 11:1983 RA 2017	---	6.63	6.50 - 8.50
05	Conductivity	IS 3025 Part 14:1984 RA 2019	µS/cm	168	---
06	Total Dissolved Solids	IS 3025 Part 14:1984 RA 2019	mg/L	102	500 (Max)
07	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 Part 16:1984 RA 2017	mg/L	50.5	200 (Max)
08	Calcium (as Ca)	IS 3025 Part 21:2009 RA 2019	mg/L	14.5	75.0 (Max)
09	Magnesium (as Mg)	IS 3025 Part 40:1991 RA 2019	mg/L	3.44	30.0 (Max)
10	Chloride (as Cl)	IS 3025 Part 46:1994 RA 2019	mg/L	17.6	250 (Max)
11	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 Part 32:1988 RA 2019	mg/L	32.5	200 (Max)
12	Iron (as Fe)	IS 3025 Part 23:1986 RA 2019	mg/L	0.32	1.00 (Max)
13	Sulphate (SO <sub>4</sub> )	IS 3025 Part 53:2003 RA 2019	mg/L	4.25	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\*\*\*

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

Authorized Signatory

*[Signature]*

For and on behalf of

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

Authorized Signatory

*[Signature]*

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## Result of Water

## Annexure No. 13

C G George, Srilakshmi Stone Crusher, CSR 1.4.2019 to 31.10.2019		
	<b><u>House construction Aid</u></b>	
05-04-2019	KELAPPAN,MOOTHRADAN,KANICHAR	4550
05-06-2019	ST.SEBASTIN CHURCH,KOTTIYOOR,KELAKAM,KANNUR	8250
28/6/2019	ASMA N,1/230,NELLIYAT,PERIA,WAYANAD	7875
07-09-2019	RAJESH KANICHAR,PUTHIYAPURAYIL (H),ATTAMCHERI,MANATHANA	1170
07-04-2019	BASHEER K A,KARINKAPARA,POOLAKUTTY(PO),KANICHAR	7875
07-04-2019	P. Chandran, Palmi House, 27TH Mile, Poolakutty	50000
31.08.2019	MALABAR AWERNESS	50000
31/10/2019	CHANDUTTY,8/28,MOOTHRADAN,POOLAKUTTY(PO)SEMINARY VILLA	5850
	<b><u>Medical Aid</u></b>	
07-01-2019	SHILPA N,PUYHIYAVEED,KATTEMKANDAM,CHAVASSERY KANNUR	5000
		140570

## List of CSR Annexure