

# Compliance Report

October 2017 – March 2018



*M/s Aswathy Granites Pvt. Ltd*

**Pathanamthitta District**

**Kerala**

## ASWATHY GRANITES Pvt.Ltd.



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Dt. 01-06-2018

**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. 147/SEIAA/EC4/2748/2013

Sub :- Environment Clearance – Quarry project at Koodal Village,  
Kalanjoor Panchayath, Adoor Taluk, Pathanathitta District, Kerala – Compliance  
Report – Second Half - Reg.

Respected Sir,

The Quarry (Building stone) project was accorded Environmental Clearance for 9.3969 Ha. by order No. 147/SEIAA/EC4/2748/2013 dated 10-08-2015 by State Environmental Impact Assessment Authority, Kerala. The compliance report of **Second half** (October 2017 – March 2018) to the specific and general conditions of the Environment Clearance order is enclosed.

Thanking you,

Yours respectfully,

For M/s Aswathy Granites Pvt. Ltd



**Mr. SudheerSukumaran**  
(Director)

Copy to:-  
The Member Secretary  
State Environment Impact Assessment Authority (SEIAA),  
Thiruvananthapuram, Kerala.

Encl: - As Above

**COMPLIANCE REPORT**

**TO**

**THE CONDITIONS**

**OF**

**ENVIRONMENTAL CLEARANCE ORDER**

**NO: 147/SEIAA/EC4/2748/2013**

**Dated: 10-08-2015**

*BY*

**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA)**

**FOR**

**BUILDING STONE QUARRY**

**(MINOR MINERAL MINING) PROJECT**

*AT*

**SURVEY NO. 111/3pt, 110/8, 112/4, 111/4 pt, 111/5pt, 113/2, 112/5,  
112/1-1, 112/1-2, 112/8-1, 112/8-2, 112/8-3, 112/2 and 112/7**

**KOODAL VILLAGE, KALANJOOR PANCHAYATH, ADOOR TALUK,**

**PATHANATHITTA DISTRICT, KERALA**

*BY*

**M/s ASWATHY GRANITES PVT. LTD**

**PATHANAMTHITTA DISTRICT**

**KERALA**

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## **INTRODUCTION**

The quarry project of **M/s Aswathy Granites Pvt. Ltd.** is situated at survey No. 111/3pt, 110/8, 112/4, 111/4 pt, 111/5pt, 113/2, 112/5, 112/1-1, 112/1-2, 112/8-1, 112/8-2, 112/8-3, 112/2 and 112/7 at Koodal Village, Kalanjoor Panchayath, Adoor Taluk, Pathanathitta District, Kerala.

The quarry project was accorded with the Environmental Clearance (EC) by State Environmental Impact Assessment Authority on 10/08/2015. As part of general condition No.37 of Environmental Clearance order, half yearly compliance report needs to be submitted by the project proponent. The compliance report of first half to the specific conditions and general conditions of the Environmental Clearance order for the period of **October 2017 – March 2018** is being submitted.

**COMPLIANCE REPORT**

**(SPECIFIC CONDITIONS)**

**PART A**

**PART - A – SPECIFIC CONDITIONS**

01	<b>A safe buffer distance of 100 meter shall be left from the side of the temple without conducting quarrying activities.</b>	<b>Complied</b>
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**Compliance:**

A safe buffer distance of 100 meter has left from the side of the temple without conducting quarrying activities. The project proponent has left 110 meters of land, as part of enhancing protection for the worship place. *Pakkandam Murugan Kovil*, is situated at eastern side of the quarry. The project will assure no quarrying activity is taking place in the safe buffer zone.

02	<b>Approach road should be widened and hard surfaced for facilitating transport of hard rock and machinery.</b>	<b>Complied</b>
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**Compliance:**

To reduce emission of dust through the vehicle movement, the approach road from the project site to quarry has concreted 114 meter and maintaining in good manner. This white top road can prevent dust emission during transportation of vehicles. To make transportation easy, the approach road was widened. At present the road has 6.5 meters of width. Two vehicles can go along this road at a time without traffic problem. The project splashes water on the road to arrest the dust production during summer season. The photograph of tarred road is provided in **Plate No. 1**.

03	<b>Eco- restoration should be made in the already mined pit now in possession of the proponent.</b>	<b>Being 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. The photographs of avenue trees planted in the road side are given in **Plate No.2**.

<b>04</b>	<b>The steep faces presently seen on the working sides must be marked as danger zone. Protective fencing with sign boards should be provided to this danger zone.</b>	<b>Complied</b>
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**Compliance:**

To enhance the safety, the steep faces seen on the working sides are marked as danger zone and appropriate sign boards were fixed by the project proponent. The project proponent has erected protective fencing around the mining area to prevent the falling of human and animals in to the mining pit.. The photograph of sign board is provided in **Plate No.3**.

<b>05</b>	<b>Quarrying activities should be re located by providing haulage lines.</b>	<b>Complied</b>
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**Compliance:**

The quarrying is carrying out as per mining plan approved by the geologist. The project has constructed new haulage road for the transportation of vehicles and machinery to explore the minor minerals from the quarrying area, as per the direction of State Environment Impact Assessment Authority.

<b>06</b>	<b>Reclamation and eco restoration should be done by planting indigenous tree species.</b>	<b>Being Complied</b>
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**Compliance:**

The eco restoration plan prepared by the project will be executed in a good manner. The project started to plant indigenous tree species in and around the project site as part of reclaim the mine area and eco restoration.

**COMPLIANCE REPORT**

**(GENERAL CONDITIONS)**

**PART B**

**PART – B – GENERAL CONDITIONS**

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

Rain Water Harvesting ponds are important structure in the mining area. To utilize the rain water, this Rain Water Harvesting (RWH) structure is properly maintaining in the area. The mined quarry pit is developed as pond. The storm water from all mining areas is properly channelized to this pond. It is situated in the lowest level of quarry area. 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. 2.**

<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:**

To monitor and evaluate the works done under the conditions stipulated in the EC order, the project proponent has constituted an Environmental Monitoring Cell (EMC) with Mr. Sudheer Sukumaran as head of the monitoring cell. The EMC meeting convenes regularly for a sustainable environment. The details of the monitoring cell are given below:

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

<b>Sl. No.</b>	<b>Post</b>		<b>Name</b>
1.	Head of the monitoring cell	:	Sudheer Sukumaran
3.	Environmental Officer in charge	:	Adv. Anil.K
4.	Asst. Environmental Officer for health	:	Navajath Karunakaran
5.	Asst. Environmental Officer for safety	:	Sudharman Anandan

4.	Environment Consultant	:	Environmental Engineers and Consultants Pvt. Ltd. New Delhi.
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<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:**

As part of eco restoration and to prevent dust emission during transportation of materials, suitable avenue trees were planted along the road side and parking area. There are natural vegetation including trees, shrubs, herbs and climbers present either side of tarred road and in the parking areas. This will help to reduce air and sound pollution. The photographs of avenue trees planted in the road side are given in **Plate No.4**. The details of vegetation are given below.

**Table 2 Details of the natural vegetation existing along the road side**

Sl. No.	Scientific Name	Common Name	Family	Habit
1.	<i>swietenia mahagoni</i>	mahogany	<i>meliaceae</i>	tree
2.	<i>nerium oleander</i>	arali	apocynaceae	shrub
3.	<i>bambusa bambos</i>	mula	<i>poaceae</i>	herb
4.	<i>psidium guajava</i>	peraka	myrtaceae	tree
5.	<i>chromolaena odorata</i>	communist-pacha	compositae	shrub
6.	<i>cocos nucifera</i>	thengu / coconut	arecaceae	tree
7.	<i>mangifera indica</i>	mavu	anacardiaceae	tree
8.	<i>tectona grandis</i>	thekku	verbenaceae	tree
9.	<i>ziziphus oenopolia</i>	thodalli	rhamnaceae	climber

<b>04</b>	The project shall incorporate devices for solar energy generation and utilization wherever possible.	<b>Complied</b>
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**Compliance:**

The installation of solar can reduce the consumption from conventional sources therefore the project has installed two solar street lights in the project site to use maximum renewable energy to reduce electrical consumption from KSEB. The electricity to the office of the project is fully generating from solar source. To make this, the project proponent has installed solar panels of 3.5KW. The photograph of solar street lights and solar panel is provided in **Plate No.5**. The purchasing bill of solar street light is given in **Annexure No. 1**.

<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 emission of dust is a major adverse effect of a mining industry. To prevent dust emission, sprinklers are installed in the project site. This help to suppress dust during the time summer season. The monitoring of the air quality through a State Pollution Control Board accredited laboratory helps the project proponent to maintain the air quality within the permissible limit. The test result is given in **Annexure No. 12**

<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:**

The eco restoration plan prepared by the project will be executed in a good manner. The project started to plant various saplings in and around the project site. The list of tree/shrub/herb saplings planted in the project site is given below. The mine closure plan will be done at the own cost of project proponent as agreed in the proposal. The planted and proposed sapling to be planted in the project site is given below in the table No. 3.

**Table 3 Details of the saplings planted within the project area**

<b>Sl. No.</b>	<b>Scientific Name</b>	<b>Common Name</b>	<b>Family</b>	<b>Type</b>
1.	<i>Artocarpus heterophyllus</i>	Plavu	<i>Moraceae</i>	Tree

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2.	<i>Hevea brasiliensis</i>	Rubber	Euphorbiaceae	Tree
3.	<i>Anacardium occidentale</i>	Cahsew	Anacardiaceae	Tree
4.	<i>Pouteria sapota</i>	Saporta	Sapotaceae	Tree
5.	<i>Bambusa vulgaris</i>	Bamboo	Poaceae	Shrub
6.	<i>Cocos nucifera</i>	Thengu	Arecaceae	Tree
7.	<i>Capsicum frutescens</i>	mulaku	<i>Solanaceae</i>	Herb
8.	<i>Gomphia serrata</i>	Peral	Ochnaceae	Small tree
9.	<i>Carica papaya</i>	Papaya	<i>Caricaceae</i>	Tree
10.	<i>Nerium oleander</i>	Arali	Apocynaceae	Shrub
11.	<i>Coccos nucifera</i>	Thengu	<i>Arecaceae</i>	Tree
12.	<i>Psidium guajava</i>	Peraka	Myrtaceae	Tree
13.	<i>Mangifera indica</i>	Mavu	<i>Anacardiaceae</i>	Tree
14.	<i>Hibiscus rosa-sinensis</i>	Chembarathi	Malvaceae	Shrub
15.	<i>Musa paradisiacal</i>	Vazha	<i>Musaceae</i>	Herb
16.	<i>Swietenia mahagoni</i>	Mahagony	<i>Meliaceae</i>	Tree
17.	<i>Tectona grandis</i>	Thekku	<i>Verbenaceae</i>	Tree

<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.	<b>Will be Complied</b>
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**Compliance:**

To conserve 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. It is proposed to develop a vegetative cover in the remaining area with indigenous plant species after reclamation of the mined area with stacked top soil and overburden.

<b>08</b>	Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented in tune with the conditions specified in the Companies Act, 2013	<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 carried out more activities under CSR for inclusive growth in the community by giving stones for the infrastructure development. The copies of bill purchased against Football Jersey kit and other provisions like giving Stones for free of cost are given in **Annexure No. 2**. The details of activities performed under CSR are given in the table.

**Table No.4 Performed activities under CSR**

Sectors	Activities	Beneficiaries	Amount spent in Rs.
Education	Financial Support	Koodal Govt. Vocational Higher Secondary School	9000
<b>Total</b>			9000

<b>09</b>	Barbed metal wire fencing around the mining area shall be provided with a height of not less than 5 ft so that the falling of animals/human beings/dumping of garbages etc. does not happen.	<b>Complied</b>
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**Compliance:**

As part of demarcation and enhance safety, the project proponent has erected barbed metal wire fencing around the mining area with height of 5 ft. This will help to prevent falling of animals/human being/dumping of garbage etc. The photograph of barbed metal wire fencing is provided in **Plate No.6**.

<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 prior to the blasting in quarry, the project proponent has installed warning alarms as per the stipulation of Explosive department in the quarry site. The timing of blasting in the quarry is in between 9.30am to 10.30, 1.00 pm to 2.00pm and 3.30pm to 4.30pm. on all working days. The photograph of sign board is given in **Plate No.3**.

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

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

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

**Blast vibrations and control measures**

- ❖ Controlled blasting technique is adopted in this project in order to reduce blast vibrations.
- ❖ 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.
- ❖ The project proponent has appointed qualified persons to monitor the mining operations

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

To reduce the inconvenience of community, the quarrying activities are limited to day time only as per KSPCB guidelines. The quarry working time is 6.30am to 4.30 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:**

To reduce fly rock and ground vibration, the blasting is done in controlled manner by using ordinary delayed detonators. All blasting activities are carrying out with the stipulated guidelines of explosive department and other concerned agency. The blasting time is displayed in the sign board and all blasting happens in the specified timings.

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

To supervise/control exploitation of minor minerals including blasting at the project site the project proponent has appointed Mines manager, foreman and mining mates in the site. **Annexure No. 3** is showing the license of mine mate and foreman.

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

One of the main sources of dust emission is roads. To reduce emission of dust, the access road of 114 meter from the entrance of project site to quarry is concreted. The project is spraying water on the road to arrest the dust during summer season. The photograph of concreted road is provided in **Plate No. 1**. The project proponent is intending maintain access road to the quarry in good condition for dust emission and easiness of transportation of vehicles.

## Compliance report

<b>15</b>	Overburden materials should be managed within the site and the old quarries, if any, should be restored.	<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.

<b>17</b>	Height of the benches should not exceed 5m and width should not be less than 5m.	<b>Complied</b>
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**Compliance:**

All mining activities are progressing under the supervision of qualified personals. To enhance safety and to make environment friendly quarrying, the excavation activity in the project is progressing by creating benches of 5m width x 5m height. **Plate No. 7** showing the same.

<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 using ordinary/ electric delayed detonator for blasting therefore there is no incident of fly rock is happened in the community. The project is also assuring the maximum PPV is under 10 during the time of blasting.

<b>19</b>	Mining depth should not exceed beyond 40 m, unless otherwise specified or not below the level of the nearest stream bed, whichever is less.	<b>Will be Complied</b>
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**Compliance:**

The depth of mining won't exceed beyond 40 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.

## Compliance report

20	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>. Therefore it is not necessary to explore from the slopes greater than 45<sup>0</sup>.

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

To reduce the impact of sound to the labours in the unit, the project has provided ear plugs. Vegetation around the mining area will help to reduce noise and air pollution. This helps the noise level kept within prescribed standards. The project is trying to enhance the vegetative cover by planting more tree saplings. The results if sound level is given as **Annexure No. 11**

22	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 provided adequate Personnel Protective Equipments (PPE) such as helmets, ear muffs, safety belts, gloves, etc. to labours in the quarry site. The photograph of the workers with PPE is given in the **Plate No. 8**. The copy of bill purchased for Personal Protective Equipments is attached as **Annexure No. 4**.

23	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 flow in to the pond created at the lower slopes. The storm water chanalized to the Rain water harvesting pond the sediments will settle down in the bottom of the pond. The over flow from the pond is directed to pond constructed at the lower side of at the project site. The project proponent is intending to create garland drains where it is necessary in the project area for storm water management.

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

To arrest the dust emission while transportation of materials, the project assures the trucks are covered before it leaving the project site. A photograph of covered trucks is provided in **Plate No.9**.

25	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:**

As part of concurrent eco restoration, the project planted various saplings in the project area as a compensation of loss of trees while the project is clearing the land for mining. The list of tree saplings planted in the project site as part of eco-restoration is provided in **Table No 3**.

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

The project proponent is using the used oil as lubricant for machineries and other equipments. The spend oil will be sold only to the recyclers.

## Compliance report

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

28	Norms of KSPCB should be adhered to regarding distance criteria of residences, roads, rivers and worship places.	<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. The distance of the nearest house is above 110 meter form the quarry, the KSPCB condition is 100 meter.

29	200 m buffer distance should be maintained from forest boundaries.	<b>Noted</b>
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**Compliance:**

There is no forest area near to the project site.

30	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 in **Annexure No.5**.

31	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.5, 6, 7 & 8.**

**TABLE No. 5. DETAILS OF APPROVALS**

<b>Name of the Statutory approval</b>	<b>Name of the Statutory authority</b>	<b>Approval Number &amp; Date</b>
Environmental Clearance order	State Environmental Impact Assessment Authority, Kerala	147/SEIAA/EC4/2748/2013 Dated: 10 -08 - 2015
"Consent to Operate" (Renewal)	Kerala State Pollution Control Board	PCB/RO/PTA/ICO/QUARRY/01/2017 Dated: 08/02/2017
Explosive License	Ministry of Commerce & Industry – Petroleum & Explosives Safety Organization (PESO)	E/SC/KL/22/1359(E65090) Dated: 10-02-2016
License for quarry operations	Gram Panchayath	A9.9 /2017-18/Quarry/IV Dated:29/03/2017

<b>32</b>	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.	<b>Noted</b>
-----------	--	--------------

**Compliance:**

There is no change in the scope of the project. At present the project is running as per plan submitted in Environmental Impact Assessment Authority, Govt. of India. 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	<b>Noted</b>
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	of the Environmental (Protection) Act 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	
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**Compliance:**

To enhance the safety and eco friendly mining, 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, 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 notifications are being scrupulously followed. A brief list of various Acts and notifications which are followed by the proponent is given below

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

<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	<b>Complied</b>
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## Compliance report

	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>	
--	--	--

**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.10**. The details are given below in the table.

**Table No. 6. Details of advertisement in news papers**

Sl. No.	News paper	Language	Date of edition
1	Malayalam Manorama	Malayalam	16-09-2015
2	The New Indian Express	English	16-09-2015

<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>Compiled</b>
-----------	---	-----------------

**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 copy of acknowledgement from Gram Panchayat is provided in **Annexure No.9**. At present the project does not have a website this will be created soon.

<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 the Directorate of Environment and Climate Change, Govt. of Kerala.	<b>Compiled</b>
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**Compliance:**

The compliance report is being submitted to the State Environmental Impact assessment Authority, Kerala and the Regional Office of MoEF&CC, Govt. of India with the results of monitored data both in hard copy as well as mail. The result of monitored data is provided in **Annexure No. 11, 12 & 13**

<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.	<b>Compiled</b>
-----------	--	-----------------

**Compliance:**

The 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. The photograph of the board is given in **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>Compiled</b>
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**Compliance:**

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

# PLATES

Plate No.1



Concreted road to the quarry

Plate No.2



Rain water harvesting pond

Plate No.3



Sign board

Plate No.4



Avenue Tress

Plate No.5



Solar Street light



Solar panels for office

Plate No.6



Fencing around the mining area

Plate No.7



Benches under progress

Plate No.8



Labours with PPE

Plate No.9



Covered trucks



# **ANNEXURE**

Tin No: 33745683448 Ph: 9846373053  
~~0946373053 (M)~~ 2

**CASH/CREDIT BILL**

**MINNU'S ELECTRONICS & SOLAR ENERGY SYSTEM**  
 KALANJOOR, ATHIRUMKAL & TENKASI  
 (All Types Solar Accessories Sales & Service)

No. 204 Date 24/5/2016

To: A. Aswathy Granites Pvt Ltd Athirumkal, Kerala

Sl. No.	Particulars	Qty.	Rs.	Ps.
20160 150726	Solar, 30w. led top assembly	1	30000	
Ch: No. 012066 - dtd 30/5/16				
MINNU'S SOLAR ENERGY SOLUTIONS Chitter Korri - Pathanamthitta				
TOTAL		1	30000	0

For: MINNU'S ELECTRICALS

Copy of solar purchased

Compliance report

Annexure No.2



SPORTS PARADISE  
COLLEGE JUNCTION PATHANAMTHITTA  
Phone : 9656144455,9562644455  
BILL OF SUPPLY :

PRINCIPAL .. G.V.F.S.S KODAL

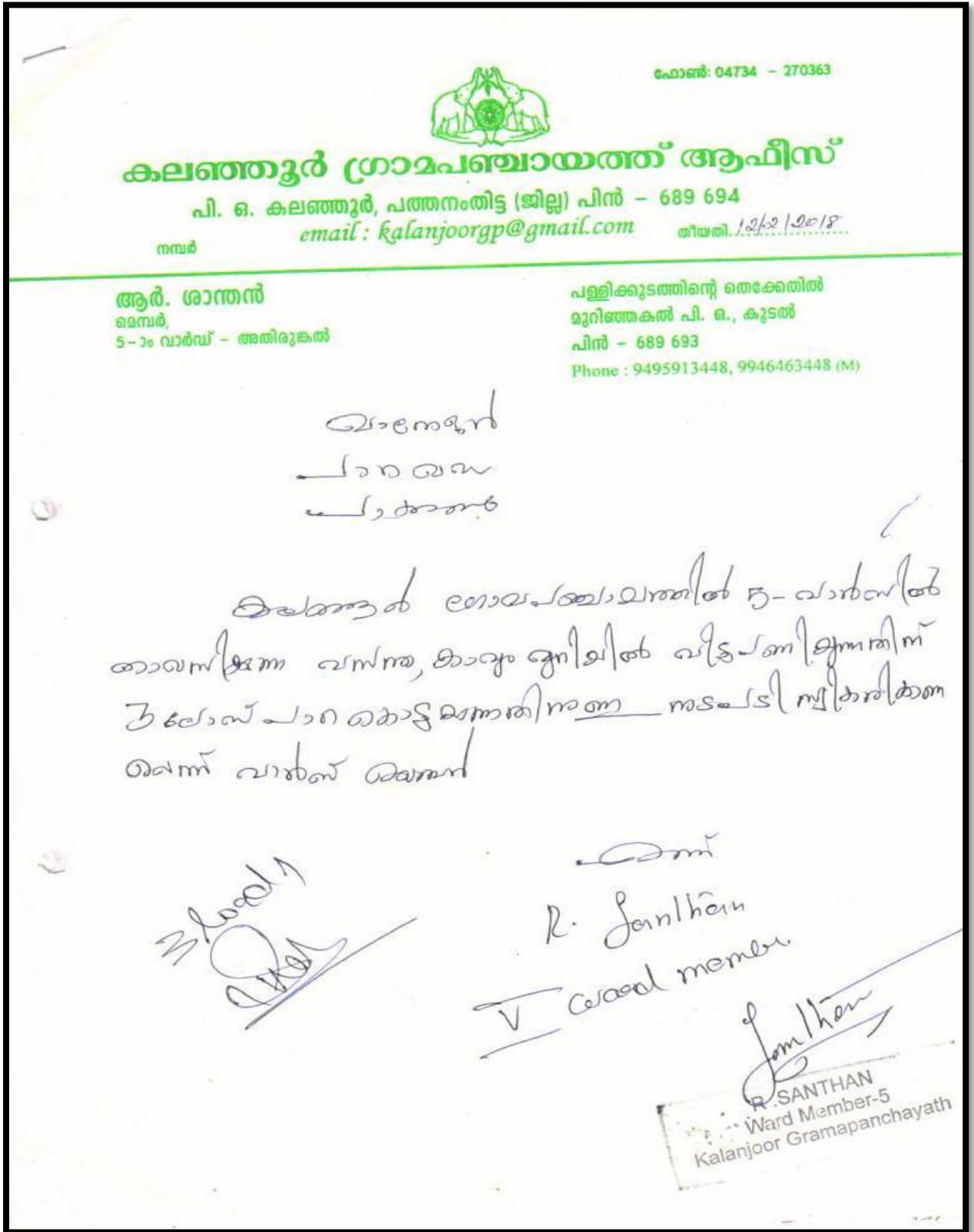
NO : C 428  
DATE: 01/08/2018  
Time : 11:30

Sl No	ISS Code	Community/Item	Price	Qty	Gross Amt	Disc Amt	Net Amt	Total
		FOOTBALL JERSEY SET	500.00	18.000	9000.00	0.00	9000.00	9000.00
					18.000	9000.00	0.00	9000.00
<b>Grand Total:</b>								<b>9000.00</b>




IN ALL FIGURES IN THOUSAND ONLY

SUDHARMA A. R.  
Headmistress  
Govt. VHSS, Koodal  
Munnjakkal P.O.,  
Pathanamthitta-890093



Receipts of CSR





Cert No. FMR / 2894

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

श्री यल्लाप्रागदा एस गोपाल सुपुत्र वाई. सीतायती राव  
जन्म तिथि 14.06.1970 है, को विहित अर्हताएं एवं अनुभव  
प्राप्त करने का सन्तोषजनक प्रमाण प्रस्तुत करने एवं सितम्बर, 2014 में आयोजित विहित परीक्षा में उत्तीर्ण  
होने पर एतद्वारा ओपेनकास्ट धात्विकीय खानों के प्रबंध हेतु प्रथम श्रेणी प्रबंधक सक्षमता प्रमाण-पत्र प्रदा  
किया जाता है। यह प्रमाण-पत्र 28.04.2015 से प्रभावी है।

Shri Yellapragada S. Gopal son of Y. Seethapathi Rao  
born on 14th June, 1970 having given satisfactory evidence of  
possessing the prescribed qualifications and experience and having passed the examination held in  
September, 2014 is hereby granted FIRST CLASS MANAGER'S CERTIFICATE OF  
COMPETENCY to manage the metalliferous mines having opencast workings only. This  
certificate is effective from. 28.04.2015


  
सचिव  
खनन परीक्षा बोर्ड  
Secretary  
Board of Mining  
Examinations


  
अध्यक्ष  
खनन परीक्षा बोर्ड  
Chairman  
Board of Mining  
Examinations


Signed and Sealed  
Date 28.04.2015

Certificate of First class manager

Cert No. FUE /1482

  
सत्यमेव जयते



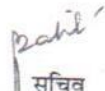


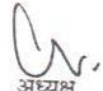
भारत सरकार/Government of India  
खान अधिनियम, 1952/Mines Act, 1952  
खनन परीक्षा बोर्ड/Board of Mining Examinations

फोरमैन सक्षमता प्रमाण-पत्र  
FOREMAN'S CERTIFICATE OF COMPETENCY  
(घात्विकीय खान विनियम, 1961 के अन्तर्गत)  
(Under the Metalliferous Mines Regulations, 1961)

श्री शिव कुमार सी सुपुत्र कुमाराश्वामी सी  
जिनकी जन्म तिथि 01.06.1989 है, को विहित अर्हताएं एवं अनुभव प्राप्त करने का सन्तोषजनक प्रमाण प्रस्तुत करने पर एतद्द्वारा फोरमैन सक्षमता प्रमाण-पत्र प्रदान किया जाता है। यह प्रमाण-पत्र दिनांक 26.08.2015 से प्रभावी है।

Shri *Shivakumar C* son of *Kumara Swamy C*  
born on *01st June, 1989* having given satisfactory evidence of possessing the prescribed qualifications and experience is hereby granted MINE FOREMAN'S CERTIFICATE OF COMPETENCY. This certificate is effective from *26.08.2015*

  
सचिव  
खनन परीक्षा बोर्ड  
Secretary  
Board of Mining  
Examinations

  
अध्यक्ष  
खनन परीक्षा बोर्ड  
Chairman  
Board of Mining  
Examinations

Signed and Sealed  
Date 09.09.16

Certificate of foreman

Compliance report

(मिनीय) खनन परीक्षा बोर्ड  
Board of Metalliferous  
Mines Examinations  
दस्तावेज नं०  
No. of Document

10027

सं. ४०१९०-१२२२२  
C. I. M. 12222

भारत

खान अधिनियम, 1952  
THE MINE'S ACT, 1952  
खनन मेंट समर्थता प्रमाण-पत्र  
MINING MATE'S CERTIFICATE OF COMPETENCY  
(आवक खान विनियम, 1961 के अधीन)  
(Under Metalliferous Mines Regulations, 1961)  
(केवल खल कार्यस्थलों वाली धात्विक खानों तक सीमित)  
(Restricted to metalliferous mines having open-cast workings only)

श्री ..... , सुपुत्र  
(पितामी) ग.व ..... , थाना .....  
जिला ..... , राज्य .....  
जन्म तारीख ..... ने अपनी आयु, स्वरथता, सदाचार, साक्षरता और अनुभव का  
संतोषजनक प्रमाण दे दिया है और ता ..... को  
में हुई परीक्षा पास कर ली है। उसे धात्विक खान विनियम, 1961 के अधीन उन धात्विक खानों के लिये जिनमें केवल खल कार्यस्थलों तक कार्य  
सीमित होता है खान मेंट समर्थता प्रमाण-पत्र दिया जाता है।

Shri M.L. Sree Kumaran Thampi  
of Village Mangalath. , Thara Kollam.  
District Kollam. , State Kerala  
born on 31st May 1967. , Son of Siri P.G. Lekshmanan.  
having given satisfactory evidence of his age, medical fitness, good conduct, literacy and experience and having passed an  
examination held at OORGAUM.KGF. , on 2nd July 1992.  
19..... is hereby granted a MINING MATE'S CERTIFICATE under the Metalliferous Mines Regulations  
1961, restricted to metalliferous mines having open-cast workings only.

खनन परीक्षा बोर्ड  
Secretary,  
Board of Mining Examinations.  
तारीख/Date: 17-7-1992.

खनन परीक्षा बोर्ड  
Chairman,  
Board of Mining Examinations.

Left hand thumb impression

valid up to 05-06-2017

14/6/12

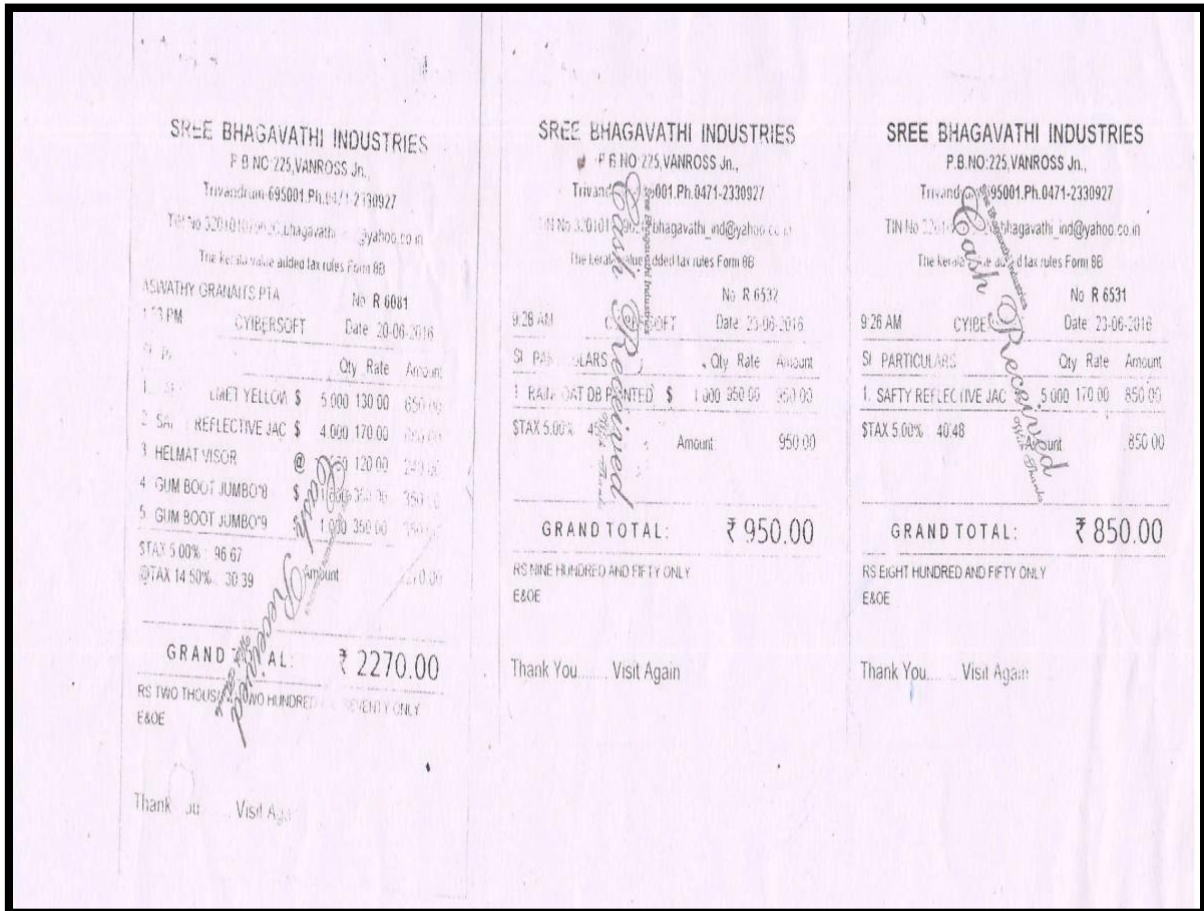
श्रेष्ठ हाथ के अंगुठे का निशान  
Left hand thumb impression

प्रमाणित किया जाता है कि उम्मीदारी परीक्षा की गई और उसे प्रहरेषण, सक्षम दृष्टि या अन्य किसी ऐसी शारीरिक या मानसिक अशक्तता से  
रहित पाया गया, जिसका उसके दक्षतापूर्वक कार्य निष्पादन पर प्रभाव पड़ने का संभावना हो।  
Certified that he was examined and found free from deafness, defective vision or any other infirmity, mental or  
physical, likely to interfere with the efficient discharge of his duties.

1. 01/7/03/97

Certificate of mining mate


Annexure No.4



Bill of PPE

5

FILE NO : PCB/RO/PTA/ICO/QUARRY/01/2017  
Date of issue : 08/02/2017



**KERALA STATE POLLUTION CONTROL BOARD**

**CONSENT TO**

**OPERATE/AUTHORISATION/REGISTRATION**

**ISSUED UNDER**

The Water (Prevention & Control of Pollution) Act, 1974  
The Air (Prevention & Control of Pollution) Act, 1981


and

The Environment (Protection) Act, 1986

As per Application No. :3585495  
Dated:04-08-2016

**TO**

**M/s QUARRY OF ASWATHY GRANITES PVT LTD**  
**MURINJAKAL P. O,**  
**KOODAL,**  
**KONNI**  
**PATHANAMTHITTA**



Consent No. :PCB/RO/PTA/ICO/01/2017  
Valid Upto :31/07/2019

Page1

Consent to Operate




Compliance report

Annexure No.7

**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 magazir

अनुज्ञप्ति सं. (Licence No.): E/SC/KL/22/1359(E65090)  
वार्षिक फीस रूपर (Annual Fee Rs): 2400/-



1. Licence is hereby granted to  
**sudheer Sukumaran (अधिभोगी / Occupier : Sudheer Sukumaran)**, Padmalayam, Murinjakkal P.O. Koodal, Pathanamthitta District - Kerala, Town/Village - Koodal, District-PATHANAMTHITTA, State-Kerala, Pincode -

को अनुज्ञप्ति अनुदत्त की जाती है।

2 अनुज्ञप्तिधारी की प्रास्थिति | Status of licensee : **Individual**

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 Detonators, Ordinary Detonator** 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	2000 Mtrs
3.	Electric Detonators	6.3	0	1500 Nos.
4.	Ordinary Detonator	6.3	0	1500 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 रेखाचित्र क्र. (Drawing No.) E/SC/KL/22/1359 (E65090) है।  
The licensed premises shall conform to the following drawing(s): दिनांक (Dated) 02/01/2012


6. अनुज्ञप्त परिसर निम्नलिखित पते पर स्थित है। The licensed premises are situated at following address:  
Survey No. 343/1 Block No.30, ग्राम (Town/Village): **Koodal (v)Adoor Taluk, District Pathanamthitta**  
जिला (District) **PATHANAMTHITTA** राज्य (State) **Kerala** पिनकोड (Pincode)  
दूरभाष (Phone) **9447439826** ई.मेल (E-Mail) **फैक्स (Fax)**

7. अनुज्ञप्त परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं।  
The licensed premises consist of following facilities.  
**A SET OF ONE D TYPE ( Sr NO 340) AND ONE E TYPE (Sr No 479) PORTABLE MAGAZINE FABRICATED BY M?S THEKKANS ENGINEERING AND FABRICATION WORKS, ERNAKULAM, KERALA**

8. अनुज्ञप्ति समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबंधों के अधीन रहते हुए अनुदत्त की जाती है।  
The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures.

- उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सन्निर्माण संबंधी और अन्य विवरण दर्शित करते हुए)।  
Drawings (showing site, constructional and other details) as stated in serial No. 5 above.
- अनुज्ञप्ति प्राधिकारी व्द्वारा हस्ताक्षरित इस अनुज्ञप्ति की शर्तों और अतिरिक्त शर्तों।  
Conditions and Additional Conditions of this licence signed by the licensing authority.
- दूरी प्ररूप DE-2 | Distance Form DE-2.

Explosive license




ലൈസൻസ് നമ്പർ A9.9/2017-18/Quarry/IV തീയതി 29/03/2017

കുലത്തൂർ ഗ്രാമ പഞ്ചായത്തിൽ നിന്നും

1994 ലെ കേരളാ പഞ്ചായത്ത് രാജ് ആക്ട് ( 1994 ലെ 13 ) 232, 233, 234, 254 എന്നീ വകുപ്പുകളും അന്തർദ്ദേശീയ പട്ടണങ്ങളും അനുസരിച്ചു നൽകുന്ന

**ഡി & ഒ ലൈസൻസ്**

ലൈസൻസിയുടെ പേരും മേൽവിലാസവും	<u>സുധീർ സുബ്രഹ്മണ്യൻ</u> <u>കോരമണ്ണിൻ ഡയറക്ടർ</u> <u>അടവഴി(1) ഗുണമേന്മൻ തൊഴിൽ ലിമിറ്റഡ്, മുറ്റത്തൂർ റ്റി.3</u>	
സ്ഥാപനത്തിന്റെ പേരും സ്ഥലനാമവും	<u>അടവഴി(1) ഗുണമേന്മൻ തൊഴിൽ ലിമിറ്റഡ്, മുറ്റത്തൂർ റ്റി.3</u>	
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	<u>ക്ലാസ് വിഭജനം ചെയ്ത ട്രെയിനിംഗ് ഓൺ പെട്ട 110/8, 111/3, 111/4, 111/5, 112/1-1, 112/1-2, 112/2, 112/7, 112/4, 112/5, 112/8-1, 112/8-2, 112/8-3, 113/2 പരമ്പരികളായ നമ്പർ ഡെപാർട്ട്മെന്റ് 9-3969, അടവഴി നിലയം തിരുവനന്തപുരം രാജ് വിനയനഗരം</u>	
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡ് നമ്പരും	<u>വാർഡ് - IV, മൂപ്പിൻ നെൽപ്പാറ - KP. IV/659</u>	
ലൈസൻസ് കാലയളവ്	<u>01/04/2017</u>	മുതൽ <u>31/03/2018</u> വരെ
ഈടാക്കിയ ലൈസൻസ് ഫീസ്	<u>₹ 5000/-</u> രൂപ	സെൽ നമ്പർ
		<u>11601106491</u> <u>ന്ദ 28/03/2017</u>
ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരീക്ഷണ പത്രങ്ങളുടെ വിവരങ്ങൾ ( നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാരസമാഹാരം)	<ol style="list-style-type: none"> <li>1. Experience licence No. E/SC/KL/22/1359(665090) 10/02/2016</li> <li>2. Letter of intent No. 1725/M3/2016 nd 13/7/2016 of the Mining &amp; geology director (Incharge)</li> <li>3. Pib consent to operate No. PCB/RO/PTA/100/0/2017 nd 08/02/2017 valid upto 31/07/2019</li> <li>4. proceedings of the State Environment Impact Assessment Authority Kerala order No - 147/SEIAA/EC4/2748/2013 nd 10/08/2015 valid upto 09-08-2020</li> </ol> <p><u>Note of the Asst. Municipal Officer Frey Resque Services, Puthenthitta. No. 6. 4327/16 nd 31/8/2016</u> <u>The validity of the consent shall be subject to any judgement/decision in the NOI application No. 205 of 2016 (SZ)</u></p>	



കുലത്തൂർ (ഗ്രാമ) S. Rajesh  
Secretary  
Kalamnjoor Gram Panchayat  
Phone : 9446942098

GLM-30-Y-2014

Copy of license form Gram Panchayat

Annexure No.9

Kalanjoor Grama Panchayat 8088895  
Kalanjoor P.O, Pathanamthitta,  
Phone: 04734270363  
Inward No 5222 Year 2015  
Date of Receipt 19/09/2015  
Name of Applicant ASWATHY GRANITES, KOODAL  
Subject ENVIRONMENT CLEARANCE  
Date of Delivery  
Section A9  
19/09/2015 04:16:37PM

Acknowledgement from Gram Panchayat





**TEST REPORT**

Test Report No: SEANN/1710/R166	Date: 26.10.2017	Page 1 of 1
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CUSTOMER DETAILS		
Customer Details	Name & Address	M/s Aswathy Granites (P) Ltd Murinjakkal, Adoor Pathanamthitta District
Monitoring Site	Survey No	110/8, 111/4, 111/5, 112/1-1, 112/1-2, 112/2, 112/1-2, 112/7, 112/8-1, 112/8-2, 112/8-3,
	Village	Koodal
	Panchayath	Kalanjoor
	Taluk	Konni
	District	Pathanamthitta
	State	Kerala
Customer Reference	Test Request Form Dated 19.10.2017	
SAMPLE DETAILS		
Source of sample	Ambient Sound Level	
Location of Monitoring	Near East side Boundary	
Date of Monitoring	20.10.2017	

DAYTIME	RESULT	NIGHTTIME	RESULT
06.00 Hrs	36.4 dB (A)	23.00 Hrs	34.9 dB (A)
07.00 Hrs	39.0 dB (A)	00.00 Hrs	37.4 dB (A)
08.00 Hrs	43.1 dB (A)	01.00 Hrs	38.2 dB (A)
09.00 Hrs	46.5 dB (A)	02.00 Hrs	37.8 dB (A)
10.00 Hrs	48.8 dB (A)	03.00 Hrs	38.5 dB (A)
11.00 Hrs	51.8 dB (A)	04.00 Hrs	37.4 dB (A)
12.00 Hrs	49.1 dB (A)	05.00 Hrs	39.2 dB (A)
13.00 Hrs	48.4 dB (A)	RESULTS	
14.00 Hrs	48.8 dB (A)		
15.00 Hrs	49.1 dB (A)	Ambient Sound Level (Leq) Daytime	47.2 dB (A)
16.00 Hrs	50.3 dB (A)		
17.00 Hrs	50.6 dB (A)		
18.00 Hrs	45.4 dB (A)		
19.00 Hrs	42.0 dB (A)	Ambient Sound Level (Leq) Nighttime	37.7 dB (A)
20.00 Hrs	38.3 dB (A)		
21.00 Hrs	37.8 dB (A)		
22.00 Hrs	35.3 dB (A)		

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

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



*(Signature)*  
Authorized Signatory  
**Laiju P. N.**  
Laboratory Head

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 20 67 24 02  
Web: www.sealabs.in, E-mail: seaalab@gmail.com, info@sealabs.in

Result of ambient Noise

## Annexure No.12

**TEST REPORT**

Test Report No: SEAAL/1710/EN/R077	Date: 27.10.2017	Page 1 of 1
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CUSTOMER DETAILS			
Customer Details	Name & Address	M/s Aswathy Granites (P) Ltd Murinjakkal, Adoor Pathanamthitta District	
Monitoring Site	Survey No	110/8, 111/4, 111/5, 112/1-1, 112/1-2, 112/2, 112/1-2, 112/7, 112/8-1, 112/8-2, 112/8-3,	
	Village	Koodal	
	Panchayath	Kalanjoor	
	Taluk	Konni	
	District	Pathanamthitta	
	State	Kerala	
Customer Reference	Test Request form dated 19.10.2017		
SAMPLE DETAILS			
Source of Sample	Ambient Air	Sample Code	SEAAL/1710/EN/S077
Location of Monitoring	Near East side boundary	Sampled By	By Laboratory
Date of Monitoring	20.10.2017	Test Started On	23.10.2017
Sample Received On	21.10.2017	Test Completed On	24.10.2017
Humidity	74 %	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 2012	µg/m <sup>3</sup>	63.8	100
02	Particulate matter (PM <sub>2.5</sub> )	EPA 40 CFR Part 50 Appendix - L	µg/m <sup>3</sup>	29.4	60.0
03	Sulphur dioxide (SO <sub>2</sub> )	IS 5182 Part 2: 2001 RA 2012	µg/m <sup>3</sup>	< 2.00	80.0
04	Nitrogen dioxide (NO <sub>2</sub> )	IS 5182 Part 6: 2006 RA 2012	µg/m <sup>3</sup>	< 2.00	80.0

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

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

Authorized Signatory

**Laiju P. N.**  
Laboratory Head


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.

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Web: www.sealabs.in, E-mail: sealab@gmail.com, info@sealabs.in


Result of Ambient Air

## Annexure No.13



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

**TEST REPORT**



NABL(T-3620)


Test Report No: SEAAL/1710/WA/R078	Date: 27.10.2017	Page 1 of 1
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CUSTOMER DETAILS	
Customer Details	Name & Address M/s Aswathy Granites (P) Ltd Murinjakkal, Adoor Pathanamthitta District
	Survey No 110/8, 111/4, 111/5, 112/1-1, 112/1-2, 112/2, 112/1-2, 112/7, 112/8-1, 112/8-2, 112/8-3,
	Village Koodal
	Panchayath Kalanjoor
	Taluk Konni
	District Pathanamthitta
	State Kerala
Customer Reference	Test Request Form dated 20.10.2017

SAMPLE DETAILS			
Sample Code	SEAAL/1710/WA/S078	Sample Received On	21.10.2017
Sample Name	Open Well	Sampling Procedure	SEAAL/MSP/24
Sample Description	Water	Sampling Location	North West side Boundary
Identification By Customer	---	Sample Condition	Good
Sampled On	---	Test Started On	21.10.2017
Sampled By	Customer	Test Completed On	24.10.2017

SL NO	TEST PARAMETER	TEST METHOD	UNITS	RESULT	ACCEPTABLE LIMIT (IS 10500 – 2012)
01	Colour	IS 3025 Part 4: 1983 RA 2012	Hazen	1.00	5.00 (Max)
02	Odour	IS 3025 Part 5: 1983 RA 2012	---	Unobjectionable	Unobjectionable
03	Turbidity	IS 3025 Part 10: 1984 RA 2012	NTU	0.40	1.00 (Max)
04	pH	IS 3025 Part 11: 1984 RA 2012	---	6.81	6.50 – 8.50
05	Total Dissolved Solids	IS 3025 Part 16: 1984 RA 2012	mg/L	63.0	500 (Max)
06	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 Part 21: 2009	mg/L	28.6	200 (Max)
07	Calcium (as Ca)	IS 3025 Part 40: 1991 RA 2009	mg/L	8.16	75.0 (Max)
08	Magnesium (as Mg)	IS 3025 Part 46: 1994 RA 2009	mg/L	1.99	30.0 (Max)
09	Chloride (as Cl)	IS 3025 Part 32: 1986 RA 2009	mg/L	13.6	250 (Max)
10	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 Part 23: 1986 RA 2009	mg/L	17.7	200 (Max)
11	Iron (as Fe)	IS 3025 Part 53: 2003 RA 2009	mg/L	< 0.10	1.00 (Max)
12	Sulphate (SO <sub>4</sub> )	IS 3025 Part 24: 1986 RA 2009	mg/L	2.08	200 (Max)
*13	Total Coli form Bacteria	IS 1622: 1981 RA 2009	----	Absent/100ml	Absent/100 ml
*14	E coli	IS 15185: 2002	----	Absent/100ml	Absent/100 ml

\* Not under NABL. \*\*\*End of Report\*\*\*



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

**Laiju P. N.**  
Laboratory Head

*(Signature)*  
Authorized Signatory

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Web: www.sealabs.in, E-mail: seaalab@gmail.com, info@sealabs.in

## Result of Water