

Compliance Report

April 2018 – September 2018

M/s Aswathy Granites Pvt. Ltd

Pathanamthitta District

Kerala

ASWATHY GRANITES Pvt.Ltd.

Murinjakkal P.O. 689 693, Koodal, Pathanamthitta (Dist), Kerala, GSTIN 32AAGCA4607G1Z4

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Dt. 28-03-2019

The Additional Principal Chief Conservator of Forests (C)
Ministry of Environment, Forests & Climate Change,
4th 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 – First Half - Reg.**

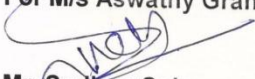
Respected Sir,

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 **First half** (April 2018 –September 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. **Sudeer Sukumaran**
(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 **April 2018 - September 2018** is being submitted.

COMPLIANCE REPORT
(SPECIFIC CONDITIONS)
PART A

PART - A – SPECIFIC CONDITIONS

| | | |
|----|---|-----------------|
| 01 | A safe buffer distance of 100 meter shall be left from the side of the temple without conducting quarrying activities. | Complied |
|----|---|-----------------|

Compliance:

As part of enhancing protection for the worship place, the project proponent has left 110 meters of land from the side of temple as safe buffer distance. *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 | Approach road should be widened and hard surfaced for facilitating transport of hard rock and machinery. | Complied |
|----|---|-----------------|

Compliance:

To reduce air pollution while the transportation of materials, the project has concreted the road of 114 meters length. 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 photograph of concreted road is provided in **Plate No.1**.

| | | |
|----|---|-----------------------|
| 03 | Eco- restoration should be made in the already mined pit now in possession of the proponent. | Being complied |
|----|---|-----------------------|

Compliance:

As part of Eco restoration, the project has developed two mined pit as rain water harvesting ponds in the site and it is used for fish farming. The project proponent is trying to use the mined pits in a sustainable way. The project has been planting various saplings in the project site as part of enhancing bio diversity in the project site. The photograph of rain water harvesting pond is provided in **Plate No. 2**.

| | | |
|----|--|----------|
| 04 | 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. | Complied |
|----|--|----------|

Compliance:

The project proponent has erected protective fencing around the mining area to prevent the falling of human and animals in to the mining pit. To enhance the safety, the project proponent marked danger and placed sign board at appropriate places in the project area. The photograph of sign board is provided in **Plate No.3**.

| | | |
|----|---|----------|
| 05 | Quarrying activities should be re located by providing haulage lines. | Complied |
|----|---|----------|

Compliance:

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

| | | |
|----|---|----------------|
| 06 | Reclamation and eco restoration should be done by planting indigenous tree species. | Being Complied |
|----|---|----------------|

Compliance:

To reclaim the mine area, the project proponent has started to plant various indigenous species at the project site.

COMPLIANCE REPORT
(GENERAL CONDITIONS)
PART B

PART – B – GENERAL CONDITIONS

| | | |
|-----------|---|-----------------|
| 01 | Rain Water Harvesting capacity should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified elsewhere. | Complied |
|-----------|---|-----------------|

Compliance:

To harvesting rain water, the project proponent has developed rain water harvesting pond in the project site to collect rain water falling in the entire mining area. To utilize the rain water, this Rain Water Harvesting (RWH) structure is properly maintaining in the area. The mined quarry pit is developed as pond. The ponds were situated at the lowest level of project site. The surface runoff is canalized to the pond through garland drains. The water from pond is mainly used for watering of plants, wetting of roads and sprinkler system for contain dust emission. The photograph showing the rain water collection pond in the project area is attached in **Plate No.2**.

| | | |
|-----------|--|-----------------|
| 02 | Environment Monitoring Cell (EMC) as agreed under the affidavit filed by the proponent should be formed and made functional. | Complied |
|-----------|--|-----------------|

Compliance:

The Environmental Monitoring Cell (EMC) formed and made functional 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)

| Sl. No. | Post | Name |
|----------------|--|---|
| 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. |

| | | |
|-----------|---|-----------------|
| 03 | 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. | Complied |
|-----------|---|-----------------|

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.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> | mahagony | <i>meliaceae</i> | tree |
| 2. | nerium oleander | arali | apocynaceae | shrub |
| 3. | <i>bambusa bambos</i> | mula | <i>poaceae</i> | herb |
| 4. | psidium guajava | 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 |

| | | |
|-----------|--|-----------------|
| 04 | The project shall incorporate devices for solar energy generation and utilization wherever possible. | Complied |
|-----------|--|-----------------|

Compliance:

As part of energy conservation, the project proponent has installed two solar street lights to 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**.

| | | |
|-----------|---|-----------------|
| 05 | Sprinklers shall be installed and used in the project site to contain dust emissions. | Complied |
|-----------|---|-----------------|

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. Water efficiency 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**

| | | |
|-----------|---|--------------|
| 06 | Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent. | Noted |
|-----------|---|--------------|

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 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

| Sl. No. | Scientific Name | Common Name | Family | Type |
|---------|---------------------------------|-------------|-------------------|------------|
| 1. | <i>Artocarpus heterophyllus</i> | Plavu | <i>Moraceae</i> | Tree |
| 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 | <i>Apocynaceae</i> | Shrub |
| 11. | <i>Cocos nucifera</i> | Thengu | <i>Arecaceae</i> | Tree |
| 12. | <i>Psidium guajava</i> | Peraka | <i>Myrtaceae</i> | Tree |
| 13. | <i>Mangifera indica</i> | Mavu | <i>Anacardiaceae</i> | Tree |
| 14. | <i>Hibiscus rosa-sinensis</i> | Chembarathi | <i>Malvaceae</i> | 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 |

| | | |
|-----------|---|-------------------------|
| 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. | Will be Complied |
|-----------|---|-------------------------|

Compliance:

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

| | | |
|-----------|---|-----------------|
| 08 | Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented in tune with the conditions specified in the Companies Act, 2013 | Complied |
|-----------|---|-----------------|

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 Drinking water supply to the community people, Monthly Aid of food materials etc. The copies of bill purchased against Football Jersey kit, receipt of CMDRF and other

provisions like Drinking water supply 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 activates under CSR

| Sectors | Activities | Beneficiaries | Amount spent in Rs. |
|---------------------|--|--|---------------------|
| Education | Financial Support | Koodal Govt Vocational Higher Secondary School | 9,000 |
| | | | |
| Medical Aid | Financial Support | Muralidharan | 20,000.00 |
| | | | |
| Social | Donation | CMDRF | 2,75,000.00 |
| | Dress Donation | To Community People Flood Affected | 2,15,617.50 |
| | | | |
| General Help | Food Materilas Donation Monthly Distribution | To Community People | 11,96,017.00 |
| | | | |
| | | Total | 17,06,634.50 |

| | | |
|-----------|--|-----------------|
| 09 | 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. | Complied |
|-----------|--|-----------------|

Compliance

To demarcate the lease area, the project proponent has installed fencing around major part of the project site where Environmental Clearance and lease obtained. 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**. The project is intending to install fencing wherever it is necessary.

| | | |
|-----------|---|-----------------|
| 10 | Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department. | Complied |
|-----------|---|-----------------|

Compliance:

As per the stipulation of Explosive department, the project has installed warning alarms in the quarry site. This alarm can intimate the general public that the blasting is going to happen. 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. | Complied |
|-----------|--|-----------------|

Compliance:

Control measures on noise and vibration prescribed by KSPCB is implemented. 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. | Complied |
|-----------|---|-----------------|

Compliance:

To reduce the adverse effect of Quarrying activities in the community, the mining activity is limited to only day time as per KSPCB guidelines. The quarry working time is 6.30am to 4.30 pm. This will help to limit the sound pollution.

| | | |
|-----------|--|-----------------|
| 13 | Blasting should be done in a controlled manner as specified by the regulations of explosives department or any other concerned agency. | Complied |
|-----------|--|-----------------|

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.

| | | |
|-----------|---|-----------------|
| 14 | A licensed person should supervise/control the blasting operations. | Complied |
|-----------|---|-----------------|

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.

| | | |
|-----------|---|-----------------|
| 15 | Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials. | Complied |
|-----------|---|-----------------|

Compliance:

To reduce emission of dust through the vehicle movement, the access road from the entrance of project site to quarry has concreted 114 meter and maintaining in good manner. The project splashes water on the road to arrest the dust production during summer season. The project proponent is intending maintain access road to the quarry in good condition for dust emission and easiness of transportation of vehicles. The photograph of the tarred road is given in Plate **No. 1**.

| | | |
|----|--|-----------------|
| 15 | Overburden materials should be managed within the site and the old quarries, if any, should be restored. | Complied |
|----|--|-----------------|

Compliance:

The overburden and topsoil need to extract during the time of mining, these natural resources are being staked in the project site. The overburden materials are stored within the site at designated place. This will be used for plantation, haulage roads and land filling in the mining area. No overburden will let out from the project site.

| | | |
|----|--|-----------------|
| 17 | Height of the benches should not exceed 5m and width should not be less than 5m. | Complied |
|----|--|-----------------|

Compliance:

The quarrying is carrying out as per mining plan. To enhance safety and conserve environment, the project extracts the minerals by creating benches. The benches are 5 meters of height and the width of the bench have minimum of 5 meters. **Plate No. 7** showing the same.

| | | |
|----|--|--------------|
| 18 | Mats to reduce fly rock blast to a maximum of 10 PPV should be provided. | Noted |
|----|--|--------------|

Compliance:

The project is using ordinary/electric delayed detonator. The blasting is under the supervision of qualified person. The new technology of delayed blasting is

reducing the incident of fly rock. Blasting during unfavourable weather conditions is avoided. During blasting it is maintaining optimum delay sequence and stem to column ratio to minimize the fly rock distance. There is no accident due to fly rock reported in this mine, therefore mats are yet to use.

| | | |
|-----------|---|-------------------------|
| 19 | Mining depth should not exceed beyond 40 m, unless otherwise specified or not below the level of the nearest stream bed, whichever is less. | Will be Complied |
|-----------|---|-------------------------|

Compliance:

Mining depth will not 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.

| | | |
|-----------|--|--------------|
| 20 | No mining operations should be carried out at places having a slope greater than 45 ⁰ . | Noted |
|-----------|--|--------------|

Compliance:

In the project site, there is no area with a slope greater than 45⁰. Therefore it is not necessary to explore from the slopes greater than 45⁰.

| | | |
|-----------|--|-----------------|
| 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. | Complied |
|-----------|--|-----------------|

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. | Complied |
|----|--|-----------------|

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. | Complied |
|----|---|-----------------|

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 chanelized 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. | Complied |
|----|--|-----------------|

Compliance:

The project assure that the loaded trucks are covered with appropriate sheets to avoid dust emission from the vehicle while transportation of materials. 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. | Being complied |
|----|--|-----------------------|

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. | Complied |
|----|--|-----------------|

Compliance:

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

| | | |
|----|---|-----------------|
| 27 | Explosives should be stored in magazines in isolated place specified and approved by the explosives department. | Complied |
|----|---|-----------------|

Compliance:

As part of safety, Explosives are stored in the magazine. The magazine is situated in an isolated place specified and approved by the explosives department. The area surrounded to the magazine is fenced with barbed metal wire.

| | | |
|----|--|-----------------|
| 28 | Norms of KSPCB should be adhered to regarding distance criteria of residences, roads, rivers and worship places. | Complied |
|----|--|-----------------|

Compliance:

The norms of Kerala State Pollution Control Board regarding the distance criteria of residences, roads, rivers and worship places is adhered by the project. There is more than 110 meter distance to the nearest house from the boundary of mining area, the KSPCB condition is 100 meter.

| | | |
|----|--|--------------|
| 29 | 200 m buffer distance should be maintained from forest boundaries. | Noted |
|----|--|--------------|

Compliance:

There is no forest within the vicinity of the proposed lease area.

| | | |
|-----------|--|-----------------|
| 30 | Consent from Kerala Pollution Control Board under water and Air act(s) should have been obtained before initiating activity. | Complied |
|-----------|--|-----------------|

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. | Complied |
|-----------|---|-----------------|

Compliance:

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

TABLE No. 5. DETAILS OF APPROVALS

| Name of the Statutory approval | Name of the Statutory authority | Approval Number & Date |
|---|---|--|
| Environmental Clearance order | State Environmental Impact Assessment Authority, Kerala | 147/SEIAA/EC4/2748/2013 Dated: 10 -08 - 2015 |
| “ <i>Consent to Operate</i> ” (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 |

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

Compliance:

At present, there is no change in the scope of the project; 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.

| | | |
|----|--|--------------|
| 33 | 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. | Noted |
|----|--|--------------|

Compliance:

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

| | | |
|----|---|--------------|
| 34 | The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act 1981, The Environment (Protection) Act, 1986, the public liability (Insurance) Act, 1991 and EIA notification, 2006. | Noted |
|----|---|--------------|

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

| | | |
|-----------|---|-----------------|
| 35 | The project proponent should advertise in at least two local news papers widely circulated in the region, one which (both advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Department of Environment and Climate Change, Govt. of Kerala and may also be seen on the website of the Authority at www.seiaakerala.org . <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> | Complied |
|-----------|---|-----------------|

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 |

| | | |
|-----------|---|-----------------|
| 36 | A copy of the clearance letter shall be sent by the proponent to concerned Grama/District Panchayath / Municipality / Corporation / | Complied |
|-----------|---|-----------------|

| | | |
|--|---|--|
| | 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. | |
|--|---|--|

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.

| | | |
|----|---|-----------------|
| 37 | 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. | Compiled |
|----|---|-----------------|

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**

| | | |
|----|--|-----------------|
| 38 | 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. | Compiled |
|----|--|-----------------|

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**.

| | | |
|-----------|---|-----------------|
| 39 | The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed. | Compiled |
|-----------|---|-----------------|

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

Annexure No.1

Tin No: 33745683448 Ph: 9846373053
~~9846373053 (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: 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 Korini - Pathanamthitta | | | | |
| TOTAL | | 1 | 30000 | 0 |

For: MINNU'S ELECTRICALS

Copy of solar purchased

Annexure No.2

FEDERAL BANK Koodal Br. [kl]
Koodal - 689693
IFSC: FDRL0001206

CURRENT ACCOUNT
Valid for 3 months only
FEDVANIJYA+

13092018
D D M M Y Y Y Y

CMDRF या धारक को or Bearer

रुपये Rupees One Lakh Twenty five thousand only

अदा करें ₹ 1,25,000/-

खा. सं. A/c No. 12060200002202

Chq.No. 10020799

For ASWATHY GRANITES PVT LTD

AUTHORISED SIGNATORY AUTHORIZED SIGNATORY
AUTHORISED SIGNATORY AUTHORIZED SIGNATORY
Please sign above

PAYABLE AT ALL BRANCHES OF FEDERAL BANK

⑈020799⑈ 689049826⑈ 101206⑈ 29

THE FEDERAL BANK LIMITED Koodal Br. [kl]
Koodal - 689693
IFSC: FDRL0001206

CURRENT ACCOUNT
Valid for 3 months only
FEDVANIJYA+

13092018
D D M M Y Y Y Y

Pay CMDRF या धारक को or Bearer

रुपये Rupees One Lakh Twenty five thousand only

अदा करें ₹ 1,25,000/-

खा. सं. A/c No. 12060200002202

Chq.No. 10020800

For ASWATHY GRANITES PVT LTD

AUTHORISED SIGNATORY AUTHORIZED SIGNATORY
AUTHORISED SIGNATORY AUTHORIZED SIGNATORY
Please sign above

PAYABLE AT ALL BRANCHES OF FEDERAL BANK

⑈020800⑈ 689049826⑈ 101206⑈ 29



ASWATHY GRANITES Pvt.Ltd.

Murinjakal P.O., Koodal, Pathanamthitta (Dist) 689 693, Kerala
Tel. 8547867140, 8547872140, Fax. 0468 2269727

Date: 11.9.2018

V.No. #
C 31 sep.

Cash/Cheque Payment Voucher

Payee Mareelidhaan

| Being | Amount |
|--|-----------------|
| <u>paid for Conter treatment of Mrs. Memi (wife)</u> | <u>20,000/-</u> |
| | |
| Rs. <u>Twenty thousand only</u> | <u>20,000/-</u> |

| | | |
|------|------------|------|
| Bank | Cheque No. | Date |
|------|------------|------|

AMOUNT DISTRIBUTION

| Cost Center | Account | Amount |
|-------------|--|-----------------|
| | <u>Corporate Social Responsibility</u> | <u>20,000/-</u> |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| | | | |
|----------|---------|---------------|--------------------|
| Prepared | Checked | Approved-G.M. | Received |
| | | | <u>[Signature]</u> |

GSTIN: 32DNNPS1327B1Z9

JAYALEKSHMI TRADERS
Chalai, TvpM, Thiruvananthapuram-36
9037521038

TAX INVOICE(CASH)

Invoice No. : 190
Name : ASWATHY GRANITES PRIVATE LIMITED
GSTIN : 32AAGCA4607G1Z4

Date : 11-05-18 (10:09:16 AM)

| Sl No | HSN Code & Name of the Product/Service | B.S.T Rate | Qty & UOM | Unit Price | Gross Value | Cash Disc. | Taxable Value | CGST Rate/Amount | CGST Rate/Amount | SGST Rate/Amount | SGST Rate/Amount | Total Amount |
|-------|--|------------|------------|------------|-------------|------------|---------------|------------------|------------------|------------------|------------------|--------------|
| 1 | 07136000 TOOR DAAL [1] | 0.00 | 217.000 Kg | 68.00 | 14756.00 | 0.00 | 14756.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14756.0 |
| 2 | GREEN GRAM [1] | 0.00 | 217.000 Kg | 78.00 | 16926.00 | 0.00 | 16926.00 | 0.00 | 0.00 | 0.00 | 0.00 | 16926.0 |
| 3 | 12129300 SUGAR [1] | 5.00 | 217.000 Kg | 31.43 | 6820.31 | 0.00 | 6820.00 | 2.50 | 170.50 | 2.50 | 170.50 | 7161.0 |
| 4 | GENERAL COCONUT OIL AMRUTH [500ml] | 5.00 | 217.000 PK | 85.71 | 18599.07 | 0.00 | 18600.00 | 2.50 | 465.00 | 2.50 | 465.00 | 19530.0 |
| 5 | 1207 MUSTARD | 5.00 | 22.000 kg | 61.90 | 1361.80 | 0.00 | 1361.90 | 2.50 | 34.05 | 2.50 | 34.05 | 1430.0 |
| 6 | 0909 GARLIC 1 | 0.00 | 22.000 Kg | 45.00 | 990.00 | 0.00 | 990.00 | 0.00 | 0.00 | 0.00 | 0.00 | 990.0 |
| 7 | CUMIN | 5.00 | 11.000 Kg | 238.10 | 2619.10 | 0.00 | 2619.05 | 2.50 | 65.48 | 2.50 | 65.48 | 2750.0 |
| 8 | 0909 CHILLY VATTAL RAW 1 | 5.00 | 55.000 Kg | 114.29 | 6285.95 | 0.00 | 6285.71 | 2.50 | 157.15 | 2.50 | 157.15 | 6600.0 |
| 9 | CORIANDER [GREEN,40KgBag] | 5.00 | 55.000 kg | 66.67 | 3666.85 | 0.00 | 3666.67 | 2.50 | 91.67 | 2.50 | 91.67 | 3850.0 |
| 10 | TURMERIC POWDER GENERAL | 5.00 | 11.000 KG | 147.62 | 1623.82 | 0.00 | 1623.81 | 2.50 | 40.60 | 2.50 | 40.60 | 1705.0 |
| 11 | SALT POWDER | 0.00 | 217.000 Kg | 6.80 | 1475.60 | 0.00 | 1475.60 | 0.00 | 0.00 | 0.00 | 0.00 | 1475.6 |
| | | | | | | | | 1024.43 | 1024.43 | 77173.6 | | |

Seventy Seven Thousand One Hundred and Seventy Four Only

Total : 77173.6
Rounded As : 77174.0

For JAYALEKSHMI TRADERS

Authorised signatory

KOODAL GOVT. VOCATIONAL HIGHER SECONDARY SCHOOL

Murinjakal P. O., Pathanamthitta Dist.

Ph: 0468-2396570, 2397022

04003gvhsskdl@gmail.com

Date.....08/2018

RECEIPT

2018-19 വർഷം ജില്ലാ സ്കൂൾ ഗവൺമെന്റാസനമായിട്ട് നടന്ന ഏട്യാൾ മത്സരത്തിൽ ഉടൽ ഗവൺമെന്റ് വെറുക്കുപ്പാൽ ചാലർ സെക്കന്ററി സ്കൂളിനെ പ്രതിനിധീകരിച്ച് പങ്കെടുത്ത സ്കൂൾ ടീമിന് ജേഴ്സി രജാനജന തിലേക്കാലി) അംഗീകൃത ഗ്രാണെറ്റ്സ്, ചാക്കടം, ഉടൽ ചാൽ നിന്നും 9000/- രൂപ (ഒൻപതിനായിരം രൂപ) മൂലം നന്ദിച്ചുവെക്കുന്നതിനായി.



Sudharma
SUDHARMA A. R.
Headmistress
Govt. VHSS, Koodal
Murinjakkal P.O.,
Pathanamthitta-689693

From,

Sini Shaji
 Shanu Bhavanam
 Pakkandam

Mob :- 7025078371

To, M. D
 Aswathy Granities Pvt Ltd.
 Musinjikal (P.O)
 Koodal




Sir,
 അമ്പതി നടത്തിവരുന്ന 2018-ലെ
 കെട്ടിടങ്ങളുടെ പദ്ധതിയിൻപുറം ഹാജരായ കൂട്ടി ഉൾപ്പെടെ
 ഏതാനും രാജ്യങ്ങളിലും.

പാതയുടെ
 18/4/18

പ്രിയപ്പെട്ടവർക്കായി
 സിനി
Sini

Receipts of CSR

Annexure No.3

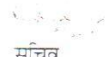





Cert No. FMR / 2894

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 एस् 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 प्रदान 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 एतद्वारा फोरमैन सक्षमता प्रमाण-पत्र प्रदान किया जाता है। यह प्रमाण-पत्र दिनांक 26.08.2015 से प्रभावी है।

Shri *Shivaikumar 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

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

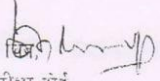
10027

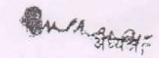
पु. ब. 100-12292
C. I. M. 12292




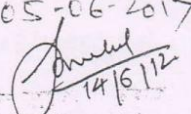
खान अधिनियम, 1952
THE MINE'S ACT, 1952
खनन मेट समर्थता प्रमाण-पत्र
MINING MATE'S CERTIFICATE OF COMPETENCY
(आयुक्त खान विनियम, 1961 के अधीन)
(Under Metalliferous Mines Regulations, 1961)
(केवल खनन कार्यस्थलों वाली धातुयुक्त खानों तक सीमित)
(Restricted to metalliferous mines having open-cast workings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

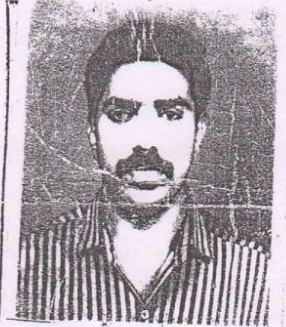
श्री _____, पुत्र _____
(निवासी) गा.व. _____, थाना _____
जिला _____, राज्य _____
जन्म तारीख _____ ने अपनी आयु, स्वरूपता, सदाचार, साक्षरता और अनुभव का
संतोषजनक प्रमाण दे दिया है और ता. _____ को
में हुई परीक्षा पास कर की है उसे धातुयुक्त खान विनियम, 1961 के अधीन उन धातुयुक्त खानों के लिये जिनमें केवल खुल कायस्थलों तक कार्य
सीमित होता है खान मेट 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 Shri 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.


अपने हाथ के अंगूठों का निगान
Left hand thumb impression

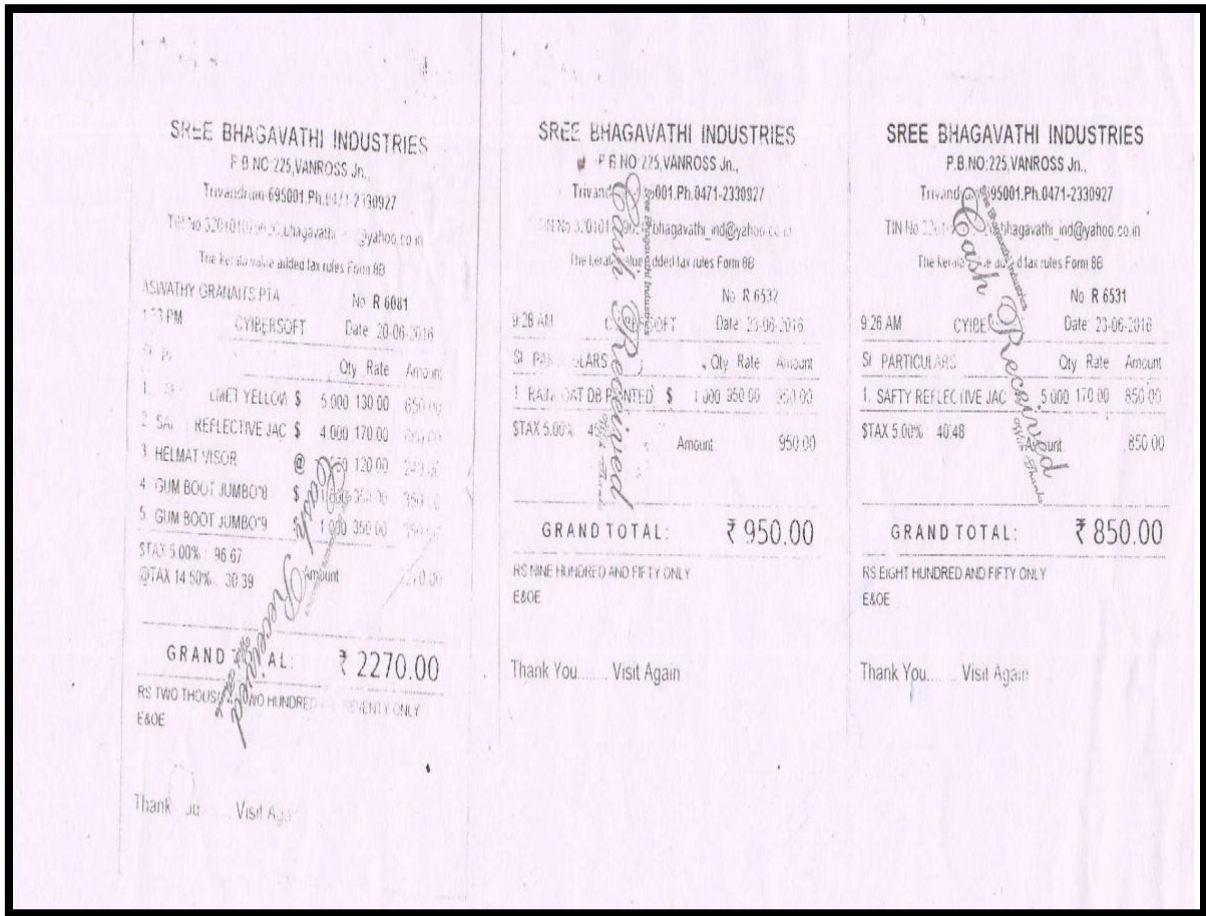
Valid upto 05-06-2017

14/6/12



प्रमाणित किया जाता है कि उनकी परीक्षा की गई और उन्हें ब्रह्मरूप, सदोष दृष्टि या अन्य किसी ऐसी धारीरिक या मानसिक अशक्तता से
रहित पाया गया, जिसका उसको दक्षतापूर्वक कार्य निष्पादन पर प्रभाव पड़ने की 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. On 17/03/97

Certificate of mining mate

Annexure No.4




Bill of PPE

Annexure No.5

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

Annexure No.6

Regd



सत्यमेव जयते

Validity expires on 9-8-2020

Proceedings of the State Environment Impact Assessment Authority
Kerala

Present : Prof. (Dr.) K.P. Joy, Chairman, Dr. J. Subhashini. Member. Sri. P. Marapandiyar .I.A.S Member Secretary.

Sub: SEIAA- Environmental Clearance for the proposed quarry project in Sy. Nos. 111/3 pt, 110/8, 112/4, 111/4 pt., 111/5 pt., 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, Kalanjor Panchayat, Adoor Taluk, Pathanamthitta District, by M/s Aswathy Granites Pvt. Ltd.- Granted . Orders issued.

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY

No. 147/SEIAA/EC4/2748/2013 *dated, Thiruvananthapuram 10-8-2015*

Read:-

1. Application dated 7-10-2013 submitted by Sri. Sudheer Sukumaran, Director, M/s Aswathy Granites, Padmalayam, Murinjakkal P.O, Pathanamthitta dist.
2. Minutes of the 21st meeting of SEAC held on 4-11-2013.
3. Minutes of the 24th meeting of SEIAA held on 22-11-2013.
4. Minutes of the 25th meeting of SEAC held on 14/15- 2- 2014.
5. Minutes of the 26th meeting of SEIAA held on 24-1-2014.
6. Minutes of the 27th meeting of SEIAA held on 20-2--2014.
7. Minutes of the 30th meeting of SEAC held on 6/7-6-2014.
8. Minutes of the 32nd meeting of SEIAA held on 22-8-2014.
9. Minutes of the 33rd meeting of SEIAA held on 24-9-2014.
10. Minutes of the 35th meeting of SEAC held on 17/18-10-2014.
11. Minutes of the 35th meeting of SEIAA held on 9-4-2015.
12. Minutes of the 39th meeting of SEAC held on 14/15-5-2015
13. Minutes of the 39th meeting of SEIAA held on 18-6-2015.

Environmental Clearance No. 54

Sri. Sudheer Sukumaran, Director, M/s Aswathy Granites Pvt. Ltd., vide his application received on 07.10.2013, has sought Environmental Clearance under EIA Notification, 2006 for the proposed quarry project in Sy. Nos. 111/3 pt, 110/8, 112/4, 111/4 pt., 111/5 pt., 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, Kalanjor Panchayat, Adoor Taluk (then), Pathanamthitta District, Kerala for an area of 9.3969 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18th May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No.

1

First page of EC order

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 रूप (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 है।
The licensed premises shall conform to the following drawing(s): दिनांक (Dated) 02/01/2012 (E65090)

6 अनुज्ञप्ति 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, पुलिस थाना (Police Station): Koodal
जिला (District) PATHANAMTHITTA राज्य (State) Kerala पिनकोड (Pincode)
दूरभाष (Phone) 9447439826 ई. मेल (E-Mail) फैक्स (Fax)


7 अनुज्ञप्ति 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 व्दारा 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

Annexure No.8




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

മലമ്പുഴ ഗ്രാമ പഞ്ചായത്തിൽ നിന്നും

1994 ലെ കേരളാ പഞ്ചായത്ത് രാജ് ആക്ട് (1994 ലെ 13) 232, 233, 234, 254 എന്നീ വകുപ്പുകളും അതേ തുടർന്നുള്ള ചട്ടങ്ങളും അനുസരിച്ചു നൽകുന്ന

ഡി & ഒ ലൈസൻസ്

| | | |
|--|--|---|
| ലൈസൻസിയുടെ പേരും മേൽവിലാസവും | <u>സുധീർ സുബ്രഹ്മണ്യൻ</u> <u>കോമളമിൻ ഡവറാട്</u> <u>റോഡ്/മിത്തമൻ തലവർ ലിമിറ്റ്, മുല്ലത്തുരുത്ത്</u> | |
| സ്ഥാപനത്തിന്റെ പേരും സ്ഥലനാമവും | <u>റോഡ്/മിത്തമൻ തലവർ ലിമിറ്റ്, മുല്ലത്തുരുത്ത്</u> | |
| ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ | <u>ക്ലാസ് വിഭജനം ചെയ്ത സ്ഥലങ്ങൾ 30ൽ 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 പശ്ചിമഘട്ട സ്ഥലങ്ങൾ 9.3969 ഹെക്ടർ നിലവാരം ഉള്ള പാലക്കാട് ജില്ലയിലെ മുല്ലത്തുരുത്ത്</u> | |
| കെട്ടിടത്തിന്റെ നമ്പരും വാർഡ് നമ്പരും | <u>വാർഡ് - IV, മുല്ലത്തുരുത്ത് നമ്പർ - 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 വിശദാംശങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാരസമാഹാരം) | <ol style="list-style-type: none"> 1. Explosive licence NO. E/SC/KL/22/359(665090) 10/02/2016 2. Letter of intent NO. 1725/M3/2016 nd 13/7/2016 of the Mining & Geology, minister (Incharge) 3. Pcb consent to operate No. PCB/RO/PTA/100/01/2017 nd 08/02/2017 valid upto 31/07/2019 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 <p style="text-align: right;">Noe of the Asst. Municipal Officer, Frey Resque Services, Puthenthutte. No. 6. 4327/16 nd 31/8/2016 The validity of the consent shall be subject to any judgement/decision in the NOI application No. 205 of 2016 (SZ)</p> | |



മലമ്പുഴ
Secretary
Kalamangalam 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 |
| Date of Receipt | 19/09/2015 | 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

Annexure No.10

| | | |
|--|--|--|
| <p>...na, Proprietrix ...rth, Mankala ...am, Thuvayoor ... Mr. Sarath ... P.O., Adoor ...vayoor North, ...ji, Shaji Nivas, ...thitta District to ...104/- (Rupees ... Hundred and ...described in the ... hereby given ...ndersigned has ...rvice of powers ... with Rule 8 of ... cautioned not ... subject to the ...104/- (Rupees ... Hundred and ...ther interest as ...the entire dues ...on 15-09-2015 ... Seventy One/No. 816/1A/1 ...Pathanamthitta ...herein covered ...1971 of Adoor .../1A/1 and 816/ ...amthitta District, ...Deed No.1239/ ...Office.</p> | <p>...ടെൻ കോം ബോർഡിന്റെ ഓഡിറ്റിംഗ് റിപ്പോർട്ട് 16.08.2015 മുതൽ വരെയുള്ള ...യ്ക്കുന്നതാണ്. കൂടാതെ ബോർഡിന്റെ വെബ്സൈറ്റായ ...www.idukkideb.in ൽ നിന്നും ഡൗൺലോഡ് ചെയ്ത് എടുക്കാനാണിത്. ...28.08.2015 5 മണിക്കോം ആവശ്യമായ സാമ്പിൾ സഹിതം ട്രൈബ്യൂണൽ സമർപ്പിക്കേ ...ണ്ടതാണ്. കൂടുതൽ വിവരങ്ങൾക്ക് ബോർഡിന്റെ ഓഡിറ്റിംഗ് റിപ്പോർട്ട് ...8547885169 എന്ന ഫോൺ നമ്പരിലോ ബന്ധപ്പെടുക.</p> <p>(ഒപ്പ്) ജനറൽ മാനേജർ</p> | <p>YES 79%</p> <p>TODAY'S QUE Will the Modi go succeed in its r cleaning up the bu</p> <p>SMS <NIEP Y 54646 www. newindianexpi</p> |
| <p>...y No. 816/1A/1 ...Pathanamthitta ...herein covered ...1971 of Adoor</p> | <p>NOTICE</p> <p>This is to inform to the General Public that the proposed quarry project in Survey Nos. 111/3 pt, 110/8, 112/4, 111/4 pt, 111/5 pt, 113/2, 112/5, 112/1-1, 112/1-2, 112/8-1, 112/8-2, 112/8-3, 112/2 and 112/7 of Koodal Village, Adoor Taiuk, Pathanamthitta District, Kerala being developed by M/s Aswathy Granites Pvt. Ltd. is accorded with ENVIRONMENTAL CLEARANCE by State Environment Impact Assessment Authority, Kerala vide Order No. 147/SEIAA/EC4/2748/2013 dt. 10-08-2015 and the copy of the Environmental Clearance is available with the office of Department of Environment and Climate Change, Govt. of Kerala and may also be seen on the website of the Authority at www.seiaakerala.org</p> | <p>ANDHRA (A Govt. of Indi</p> <p>[Rule 8 (1) of Security WHEREAS The unders Securitizations and Recd Act, 2002 (Act 54 of 2002) with Rule 8 of the security notices detailed hereunde the amounts mentioned days from the date of rec The borrowers having fail the public in general that herein below in exercise o 8 of the said rules on the The borrowers in particula property and any dealing the amount due from the t</p> <p>DET</p> <p>Date of /</p> |
| <p>.../1A/1 and 816/ ...amthitta District, ...Deed No.1239/ ...Office.</p> | <p>MILITARY ENGINEER SERVICES</p> <p>1. Commander Works Engineers, Wellington, Barracks-PO, The Nilgiris, on behalf of President of India invites online item rate bids for the works mentioned below. Tender shall be uploaded on the website on or after 28 Sep 2015.</p> | <p>DET</p> <p>Date of /</p> |

| | | |
|---|---|--|
| <p>...സമിതിക്ക് രൂപം ...വിവിധ കമ്മിറ്റികൾ ...കോഴഞ്ചേരി ടൂറി ...മിറ്റേഷൻ സെന്ററിൽ</p> | <p>Management</p> <p>For admission, contact the following office with original certificates</p> <p>ADDOOR: Room No. 39, G Floor, Revenue Tower 04734 221128 9447866183</p> | <p>MANU OFC Technician, INTERTEC Salary: Rs. 31,000/-</p> <p>FIBER OPTICS TECHNOLOGY ...ന്റെ ഏതു കോണിലും നി ...യാലി നേടാം. വളരെ ചുരുങ് ...ലിക്ക്, അത്യാം ഉയർന്ന ശ ...FIBER OPTICS CABLEലൂടെ ...വിദ്യാലയം തന്നെയാണ് മേ ...Communication കോഴ്സിൽ ന ...കിക്കുന്നത്. നമ്മുടെയൊക്കെ ...കളിലും വിദ്യാലയങ്ങളിലും ...കൾ ഇന്റർനെറ്റ് connect ചെയ് ...കൂടുതൽ വിവരങ്ങൾക്ക്, ബ ...യോ ബാച്ച് Batchesലേക്കുള്ള</p> |
| <p>MENT</p> <p>...രുന്ന ...മിച്ചിരിക്കുന്നു.</p> <p>...cademy</p> <p>ACADEMY ...puri Hospital ...ananthapuram ...8 / 2577220 ... / 9496001883 ...7034330066 ...demey.co.in ...ngannur</p> | <p>നോട്ടീസ്</p> <p>പൊതുജന ശ്രദ്ധയ്ക്കായി കേരള സംസ്ഥാനം, പത്തനംതിട്ട ജില്ല, അടുർ താലൂക്ക്, കൂടൽ വില്ലേജിലും, കലഞ്ഞൂർ പഞ്ചായത്തിലുംപെട്ട സർവ്വേ നമ്പർ 111/3 pt, 110/8, 112/4, 111/4 pt, 111/5 pt, 113/2, 112/5, 112/1-1, 112/1-2, 112/8-1, 112/8-2, 112/8-3, 112/2, 112/7 -ൽ പാവ ഖനനം ചെയ്യുന്നതിനു വേണ്ട പരിസ്ഥിതി കാനൂൺ അനുസരിച്ച് ഗ്രാസൈറ്റ്സ് പ്രൈവറ്റ് ലിമിറ്റഡ് എന്ന സ്ഥാപനത്തിന് കേരള സംസ്ഥാന പരിസ്ഥിതി ഇംപാക്ട് അസ്സസ്സ്മെന്റ് അതോറിറ്റിയിൽ നിന്നും 147/SEIAA/EC4/2748/2013 തീയതി 10-08-2015 ഓർഡർ പ്രകാരം ലഭിച്ചിരിക്കുന്നു. ഈ ഓർഡറിന്റെ പകർപ്പ് കേരള സംസ്ഥാന പരിസ്ഥിതി കാലാവസ്ഥ വ്യതിയാന വകുപ്പിൽ ലഭ്യമാണ്. www.seiaakerala.org എന്ന വെബ്സൈറ്റിൽ കൂടിയും പകർപ്പ് കാണാവുന്നതാണ്.</p> | <p>N.S.D.C National Skill Development Corporation</p> <p>TÜVRhein</p> <p>NIFE www.nifeindia.com TUV RHEINLAND NIFE ACADEMY PVT.LTD</p> |
| <p>Control Society</p> <p>am 695035 882, 2304704.</p> | <p>DUBAI</p> <p>For a Leading Logistic Company Required</p> <p>CLIENT INTERVIEW AT CALICUT ON 20th & 21st SEPTEMBER 2015</p> <p>WAREHOUSE ASSISTANTS</p> <p>(പാക്കിസ്റ്റ്, ബാർ കോഡിംഗ് ആൻഡ്)</p> | <p>LOST</p> <p>I had lost my CBSE mark sheet for the examination conducted by the State Secondary Education Board, Government of Kerala, Higher Sec Certificate (CI) HSG 4882892, HSG 54226 board school exam, Tamil Nadu Degree (BSc IT) mark sheet for the first two semesters from Sri GVG College for women (at Bharathiar University). V. Sreeshna, D/o Rajan Sainik School, Amaravathi, Udumpanet, Tirunelveli</p> |

Advertisements in News papers

Annexure No.11

**TEST REPORT**

| | | |
|-----------------------------------|------------------|-------------|
| Test Report No: TC54021800001009F | Date: 29.12.2018 | Page 1 of 1 |
|-----------------------------------|------------------|-------------|

| CUSTOMER DETAILS | | |
|------------------------|------------------------------------|--|
| Customer Details | Name & Address | M/s Aswathy Granites (P) Ltd Murinjakal, Adoor Pathanamthitta District |
| Location Of Site | Survey No | 110/8, 111/3,111/4,111/5,112/1-1,112/1-2,112/2,112/1-2,112/4,112/5,112/7,112/8-1,112/8-2,112/8-3,113/2 |
| | Village | Koodal |
| | Panchayath | Kalanjoor |
| | Taluk | Konni |
| | District | Pathanamthitta |
| | State | Kerala |
| Customer Reference | Test Request Form Dated 24.12.2018 | |
| SAMPLE DETAILS | | |
| Source of sample | Ambient Noise Level | |
| Sample Code | TC54021800001009F | |
| Location of Monitoring | East side Boundary | |
| Date of Monitoring | 24.12.2018 | |

| DAYTIME | RESULT | NIGHTTIME | RESULT |
|-----------|-------------|-----------------------------|-------------|
| 06.00 Hrs | 37.4 dB (A) | 23.00 Hrs | 32.6 dB (A) |
| 07.00 Hrs | 40.1 dB (A) | 00.00 Hrs | 34.9 dB (A) |
| 08.00 Hrs | 44.4 dB (A) | 01.00 Hrs | 35.6 dB (A) |
| 09.00 Hrs | 47.9 dB (A) | 02.00 Hrs | 35.3 dB (A) |
| 10.00 Hrs | 50.2 dB (A) | 03.00 Hrs | 36.0 dB (A) |
| 11.00 Hrs | 53.3 dB (A) | 04.00 Hrs | 34.9 dB (A) |
| 12.00 Hrs | 50.6 dB (A) | 05.00 Hrs | 36.6 dB (A) |
| 13.00 Hrs | 49.8 dB (A) | RESULTS | |
| 14.00 Hrs | 50.2 dB (A) | | |
| 15.00 Hrs | 50.6 dB (A) | Noise Level (Leq) Daytime | 48.7 dB (A) |
| 16.00 Hrs | 51.7 dB (A) | | |
| 17.00 Hrs | 52.1 dB (A) | | |
| 18.00 Hrs | 46.7 dB (A) | | |
| 19.00 Hrs | 43.2 dB (A) | Noise Level (Leq) Nighttime | 35.3 dB (A) |
| 20.00 Hrs | 39.4 dB (A) | | |
| 21.00 Hrs | 38.9 dB (A) | | |
| 22.00 Hrs | 36.3 dB (A) | | |

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories

Authorized Signatory
Lajju 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

Standard^S Environmental & Analytical Laboratories

Result of ambient Noise

Annexure No.12

**TEST REPORT**

| | | |
|------------------------------------|------------------|-------------|
| Test Report No: TC540218000001007F | Date: 29.12.2018 | Page 1 of 1 |
|------------------------------------|------------------|-------------|

| CUSTOMER DETAILS | | | |
|------------------------|------------------------------------|---|----------------------|
| Customer Details | Name & Address | M/s Aswathy Granites (P) Ltd Murinjakkal, Adoor Pathanamthitta District | |
| Location of Site | Survey No | 110/8, 111/3, 111/4, 111/5, 112/1-1, 112/1-2, 112/2, 112/1-2, 112/4, 112/5, 112/7, 112/8-1, 112/8-2, 112/8-3, 113/2 | |
| | Village | Koodal | |
| | Panchayath | Kalanjoor | |
| | Taluk | Konni | |
| | District | Pathanamthitta | |
| | State | Kerala | |
| Customer Reference | Test Request form dated 24.12.2018 | | |
| SAMPLE DETAILS | | | |
| Source of Sample | Ambient Air | Sample Code | TC540218000001007F |
| Location of Monitoring | Near North West side | Sampled By | Laboratory |
| Date of Monitoring | 24.12.2018 | Test Started On | 26.12.2018 |
| Sample Received On | 26.12.2018 | Test Completed On | 27.12.2018 |
| Humidity | 60 % | Sampling Procedure | IS 5182 Part V & XIV |

| SL NO | TEST PARAMETER | TEST METHOD | UNIT | RESULTS | NAAQ STANDARD |
|-------|---|---------------------------------|-------------------|---------|---------------|
| 01 | Particulate matter (PM ₁₀) | IS 5182 Part 23: 2006 RA 2012 | µg/m ³ | 62.8 | 100 |
| 02 | Particulate matter (PM _{2.5}) | EPA 40 CFR Part 50 Appendix - L | µg/m ³ | 19.3 | 60.0 |
| 03 | Sulphur dioxide (SO ₂) | IS 5182 Part 2: 2001 RA 2012 | µg/m ³ | < 2.00 | 80.0 |
| 04 | Nitrogen dioxide (NO ₂) | IS 5182 Part 6: 2006 RA 2012 | µg/m ³ | < 2.00 | 80.0 |

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories

Authorized Signatory

Laiju P. N.
Laboratory Head

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Standard^S Environmental & Analytical Laboratories

Result of Ambient Air

Annexure No.13

**TEST REPORT**

| | | |
|------------------------------------|------------------|-------------|
| Test Report No: TC540218000001008F | Date: 29.12.2018 | Page 1 of 1 |
|------------------------------------|------------------|-------------|

CUSTOMER DETAILS

| | | |
|--------------------|------------------------------------|---|
| Customer Details | Name & Address | M/s Aswathy Granites (P) Ltd Murinjakkal, Adoor Pathanamthitta District |
| Location of Site | Survey No | 110/8,111/3,111/4,111/5,112/1-1,112/1-2,112/2,112/1-2,112/4,112/5,112/7,112/8-1,112/8-2,112/8-3,113/2 |
| | Village | Koodal |
| | Panchayath | Kalanjoor |
| | Taluk | Konni |
| | District | Pathanamthitta |
| | State | Kerala |
| Customer Reference | Test Request Form dated 24.12.2018 | |

SAMPLE DETAILS

| | | | |
|----------------------------|--------------------|--------------------|------------|
| Sample Code | TC540218000001008F | Sample Received On | 26.12.2018 |
| Sample Name | Water | Sampling Procedure | --- |
| Sample Description | Open Well | Sampling Location | West Side |
| Identification By Customer | --- | Sample Condition | Good |
| Sampled On | --- | Test Started On | 26.12.2018 |
| Sampled By | Customer | Test Completed On | 29.12.2018 |

| 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 5:1983 RA 2017 | --- | Unobjectionable | Unobjectionable |
| 03 | Turbidity | IS 3025 Part 10:1984 RA 2017 | NTU | 0.10 | 1.00 (Max) |
| 04 | pH | IS 3025 Part 11:1983 RA 2017 | --- | 6.92 | 6.50 - 8.50 |
| 05 | Total Dissolved Solids | IS 3025 Part 16:1984 RA 2017 | mg/L | 72.0 | 500 (Max) |
| 06 | Total Hardness (as CaCO ₃) | IS 3025 Part 21:2009 RA 2014 | mg/L | 32.3 | 200 (Max) |
| 07 | Calcium (as Ca) | IS 3025 Part 40:1991 RA 2014 | mg/L | 8.08 | *75.0 (Max) |
| 08 | Magnesium (as Mg) | IS 3025 Part 46:1994 RA 2014 | mg/L | 2.95 | 30.0 (Max) |
| 09 | Chloride (as Cl) | IS 3025 Part 32:1988 RA 2014 | mg/L | 11.9 | 250 (Max) |
| 10 | Total Alkalinity (as CaCO ₃) | IS 3025 Part 23:1986 RA 2014 | mg/L | 27.6 | 200 (Max) |
| 11 | Iron (as Fe) | IS 3025 Part 53:2003 RA 2014 | mg/L | 0.12 | 1.00 (Max) |
| 12 | Sulphate (SO ₄) | IS 3025 Part 24:1986 RA 2014 | mg/L | 1.23 | 200 (Max) |
| 13 | Total Coliform Bacteria | IS 15185: 2016 | ---- | Absent/100 ml | Absent/100 ml |
| 14 | E coli | IS 15185: 2016 | ---- | Absent/100 ml | Absent/100 ml |

End of Report

For and on behalf of
Standard^s Environmental & Analytical Laboratories

Authorized Signatory

Vidhyalakshmi Das

Authorized Signatory

Liju P. N.

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Standard^s Environmental & Analytical Laboratories

Result of Water