## COMPLIANCE REPORT

## April 2024 - September 2024

# M /S PLANTERS AGGREGATES (QUARRY PROJECT)

ERNAKULAM DISTRICT
KERALA



Dt. 20-12-2024

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. 58/SEIAA/KL/7586/2012

Sub :- Environment Clearance - Quarry project at Karukutty Village & Panchayath, Alwaye, Ernakulam District, Kerala- Compliance Report - First Half - Reg.

#### Respected Sir,

The Quarry (Building stone) project was accorded Environmental Clearance for 4.8033Ha. by order No. 58/SEIAA/KL/7586/2012 dated 15-03-2013by StateEnvironmental Impact Assessment Authority, Kerala. The compliance report of First half (April 2024 –September2024) to the specific and general conditions of the Environment Clearance order is enclosed. The quarry project is not in operation.

Thanking you,

Yours respectfully,

For M/s Planters Aggregates

Mr. Saji Vadakkekara

(Proprietor)

Copy to:-

The Member Secretary

State Environment Impact Assessment Authority (SEIAA),

Thiruvananthapuram, Kerala.

Encl: - As Above

#### **Planters Aggregates**

Palissery, Angamaly, Ezhattumugham P.O., Ernakulam, Kerala - 683577, Phone: 0484-2439166, 2439167, Mob: 9562141400. E-mail: planters group@yahoo.com

**COMPLIANCE REPORT** 

TO

THE CONDITIONS

**OF** 

**ENVIRONMENTAL CLEARANCE ORDER** 

NO: 58/SEIAA/KL/7586/2012

**DATED ON: 15.03.2013** 

BY

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA)

**FOR** 

BUILDING STONE QUARRY
(MINOR MINERAL MINING) PROJECT

AT

SURVEY NO. 168

KARUKUTTY VILLAGE & PANCHAYATH, ALWAYE,

ERNAKULAM DISTRICT, KERALA

BY

M/S PLANTERS AGGREGATES,
ERNAKULAM DISTRICT

#### **KERALA**

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#### **NTRODUCTION**

The quarry project of M/s Planters Aggregates is situated at Survey No. 168 at Karukutty Village & Panchayath, Alwaye, Ernakulam District, Kerala.

The quarry project was accorded with the Environmental Clearance (EC) by State Environmental Impact Assessment Authority on 15.03.2013. As part of general condition No.25 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 2024 – September 2024 is being submitted.

The quarry project is not in operation due to the expiry of the lease.

### Brief of the project

| Type of Project                        | Quarry project (Building stone)  |
|--|--|
| Name of the project                    | M/s Planters Aggregates  |
| Category of the project                | B2   |
| GPS Locations                          | <b>Latitude (N)</b> 10 <sup>0</sup> 16' 31.28" N   |
|  |  |
| Address for                            | Longitude (E) 76° 25' 07.37" E   |
| correspondence                         | Palissery, Ezhattumugham P.O., Ernakulam District,   |
|  | Kerala – 683 577   |
|  | Tel. No. 0484-2439166, 2439167   |
| Website and E mail ID of               | www.plantersgroup.com.   |
| company                                | plantersgroup@yahoo.com  |
| Name, Phone Number &                   | 1. Saji Vadakkekara  |
| e - mail id of responsible             | Managing Director  |
| persons                                | 0484-2439166   |
|  | plantersgroup@yahoo.com  |
|  | 2. Davis George  |
|  | General Manager  |
|  | 9605040050   |
|  | davisgeorgekinattingal@gmail.com   |
|  | Main Features  |
| Total area under Environment Clearance | 4.8033 hectare   |
| Minable reserves                       | 45,90,000  |
| Production                             | 2,88,000 TPA   |
| Life of Mine                           | 16 Years   |
| Highest and lowest elevation           | 145 m MSL and lowest elevation is 95 m MSL.  |
| Crusher unit                           | Yes within the project site  |
|  | Environmental Settings   |
| Nearest house                          | nearest habitation is at 50 m towards N.   |
| Nearest Water Body                     | Chalakudi River, 1.5km, N  |
| Nearest town                           | Palissery, 0.74km, SW  |
| Nearest hospital                       | Palissery Govt. Dispensary (1.5 km ) SW  |
| Nearest School                         | Palissery Govt. LP School (1.5 km ) SW   |
| Seismic zone                           | Zone-III, Moderate damage risk zone as par BMTPC,  |
|  | Vulnerability atlas Seismic zone of India IS: 1893-2002.   |
| Air quality                            | PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>2</sub> are under NAAQ standard |
| Water quality                          | Under acceptable limit (Bore well)   |
| Ambient noise                          | Well within the limit  |

#### SALIENT FEATURES OF THE PROJECT

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 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M No. J-13012/12/2013-IA-II (I) dt.24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

Geographical location of the project site is in 9°59'21.50 to 9°59' 12.22" Latitude (N) and 76°37'20.43" to 76°37'06.07"(E). The quarry is interlinked with a Crusher / M sand unit located within the complex. The Capacity is 2, 70,000 MTA. There are no litigations against the lease area or applicant in any court of law. Topography is hilly. Highest elevation is 88m MSL and lowest 38m MSL. The approximate daily water demand is 5 KLD and total power requirement is 75 kw.

## **COMPLIANCE REPORT**

(SPECIFIC CONDITIONS)

**PART A** 

#### PART - A - SPECIFIC CONDITIONS

| 01 | The storm water drainage channels and drainage line to the     | Complied |
|----|--|----------|
|    | existing pond in the site and its exit from the site should be |          |
|    | made fully functional.   |          |

#### Compliance:

The project proponent has constructed storm water drainage channels and drainage lines to the existing pond in the site in order to manage storm water at project site. One of the expected adverse impacts to the community from the quarrying area is contamination of streams through storm water runoff. The project proponent has constructed various pits as de – siltation trap at the last point of drainage to settle down sediments at the bottom of the pits. The storm water drainage and its exit from the site are fully functional at all the time. The photograph showing the exit of drainage and de siltation trap at the site is provided at **Plate No.1.** Currently there is no mining operation in the instant quarry project.

| 0 | )2 | The depth of the mining should be restricted to the 30m level | Complied |
|---|----|---|----------|
|   |    | as agreed in the proposal.                                    |          |

#### Compliance:

As per the direction, Mining depth does not exceed beyond 30 meters as agreed in the proposal. The mining activity was done with the approved mining plan. The project proponent has scrupulously followed the condition regarding the depth of mine stipulated in the Environmental clearance Order. As plan submitted before EAC (Expert Appraisal Committee), in the conceptual phase of quarry project, the exploration of mineral is from 145 to 30m MSL. The life of mine is yet to reach in this quarry project. Due to the expiry of mining lease the project proponent does not operate the quarry project. The mining activity will be done under the supervision of qualified person.

**COMPLIANCE REPORT** 

(GENERAL CONDITIONS)

**PART B** 

#### PART - B - GENERAL CONDITIONS

| 01 | Rain water harvesting to collect and utilize the entire water | Complied |
|----|---|----------|
|    | falling in land area should be provided.                      |          |

#### Compliance:

As part of rain water harvesting, the proponent has developed rain water harvesting structure in the quarrying area. It is situated in the lowest level of quarry area. The surface runoff is channelized to the pond through garland drains. The water from pond is mainly used for crusher work, watering of plants, wetting of roads and sprinkler system for contain dust emission. The photograph of RWH is provided in **Plate No.2.** 

| 02 | Environment monitoring cell as agreed under the affidavit complied |
|----|--|
|    | filed by the proponent should be formed and made                   |
|    | functional.  |

#### Compliance:

The project proponent has constituted an Environment Monitoring Cell (EMC) with Mr. Davis George as head of the cell. The meetings of the cell convened periodically and evaluate the activities towards the stipulations of Environmental Clearance order. The details of the monitoring cell are given in the **Table No.1**. The NABET accredited consultant helps the company to upkeep the environment friendly mining. As part of monitoring, the sound levels, ambient air and water are monitored through a NABL accredited laboratory. The details of monitoring cell are given below. The committee is looking after all parameters of environment.

TABLE 1 ENVIRONMENTAL MONITORING CELL (EMC)

| SI. No. | Post   | Name             |
|---------|--|------------------|
| 1.      | Head of monitoring cell (proprietor)                       | Davis George     |
| 2.      | Senior Environmental Officer                               | Reji K. Paul     |
| 3.      | Asst. officer of Environment,<br>Health and safety at site | Vishavash sivaji |

| 4. | Environmental consultant | M/s Environmental Engineers &        |
|----|--------------------------|--------------------------------------|
|    |                          | Consultants Pvt. Ltd.                |
|    |                          | A1-198, Janak Puri, New Delhi        |
| 5. | Address of Environmental | Standards Environmental & Analytical |
|    | Laboratory               | Laboratories, KJ Tower,              |
|    |                          | Udyogamandal, EKM                    |

| 03 | Suitable avenue trees should be planted along either side of | complied |
|----|--|----------|
|    | the tarred road and open parking areas, if any, inclusive of |          |
|    | approach road and internal roads.                            |          |

The project proponent has planted suitable avenue trees along either side of the roads, parking area and other areas in the project land. There are natural vegetations including trees, shrubs, herbs and climbers also present. The name and family of flora is given below in **Table Number 2.** The photograph of trees is attached as **Plate No.3.** 

TABLE 2 - Details of the natural vegetation existing along the road side is as follows

| SI. No. | Scientific Name              | Common Name     | Family        | Habit           |  |
|---------|------------------------------|-----------------|---------------|-----------------|--|
| 1.      | Tectona grandis              | Thekku          | Verbenaceae   | Tree            |  |
| 2.      | Tabernaemontana alternifolia | Kunnanpala      | Apocynaceae   | Tree            |  |
| 3.      | Chromolaena odorata          | Communist-pacha | Compositae    | Shrub           |  |
| 4.      | Mangifera indica             | Mavu            | Anacardiaceae | Tree<br>Climber |  |
| 5.      | Ziziphus oenopolia           | Thodalli        | Rhamnaceae    |                 |  |

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

#### Compliance:

The project proponent has installed solar street lights in the project site to use maximum renewable energy to reduce electrical consumption from KSEB. As part of this, the project proponent could reduce the use of energy from conventional sources. The photograph of Solar Panels is given in **Plate No.4**.

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

#### Compliance:

To prevent dust emission, sprinklers installed in and around the crusher unit and access road. To arrest the dust emission form the approach road and the haulage road, the project proponent has deployed a tanker vehicle to splashes water. The photograph of the vehicle used for splashing of water is attached as **Plate No.5**.

| 06 | The eco-restoration plan submitted with the proposal should | Being    |
|----|---|----------|
|    | be fully implemented.                                       | complied |

#### Compliance:

The eco restoration and the mine closure plan will be done at the own cost of the project proponent as per the approved mining area. The project proponent started to plant various saplings in and around the project site. The project proponent converted a sloppy land in to benches by systematically dumping the overburden and top soil. To prevent soil erosion, the benches has covered with a *geotex* coir mat and planted grass. The photograph of benches covered by coir mat is attached as **Plate No. 6.** 

| 07 | Corporate | social   | responsibility | agreed | upon | by | the | Complied |
|----|-----------|----------|----------------|--------|------|----|-----|----------|
|    | proponent | should b | e implemented  |        |      |    |     |          |

#### Compliance:

At present there is no quarrying activity in the project site. The project proponent has carried out many activities under Corporate Social Responsibility (CSR)/ Corporate Environmental Responsibility (CER) in the banner of working quarry

project. The PP is doing various activities near to the project area under CSR in connection with the guarry working near to the instant guarry project.

| 80 | Barbed metal wire fencing around the mining area shall be        | Complied |  |
|----|--|----------|--|
|    | provided with a height of not less than 5 ft so that the falling |          |  |
|    | of animals/human/belongings/dumping of garbage's etc.            |          |  |
|    | does not happen.   |          |  |

#### Compliance

To prevent falling of animals/human being/dumping of garbage etc, the project has erected barbed metal wire fencing around the mining area with height of 5 ft. The photograph of the fencing is provided at **Plate No.7**.

| 09 | Warning alarms indicating the time of blasting (to be done at | Complied |
|----|---|----------|
|    | specific timings) has to be arranged as per stipulations of   |          |
|    | explosive department.   |          |

#### Compliance:

To give warning to the labours and community people prior to the blasting in quarry, the project has installed warning alarms as per the stipulation of Explosive department in the quarry site. The timing of blasting in the quarry was in between 11.00am to 11.30am and 3.30pm to 4:00 pm. A danger board is also installed which gives information about the blasting time to the general public. The photograph showing the danger area, sign board etc, is provided at **Plate No. 8.** 

| 10 | Access roads to the quarry shall be tarred to contain dust  | Complied |
|----|---|----------|
|    | emissions that may arise during transportation of materials |          |

#### Compliance:

To contain dust emissions and for the trouble free transportation of materials, the project proponent has tarred 2.5 kilometers of access road and maintaining the access road to the quarry site. The project proponent splashes water on the road to arrest the dust production during summer season. The project proponent is regularly

maintaining the access road in a good manner. The photograph is showing the paved access road to the site which is attached as **Plate No.9**. The avenue trees also help to prevent the emission of dust from roads.

| 11 | Overburden material should be managed within the site and  | complied |
|----|--|----------|
|    | the old quarries, if any, should be reclaimed and restored |          |

#### Compliance:

The overburden and topsoil extract during the time of mining, these natural resources is staked in the project site. This is being used for plantation, haulage roads and land filling in the mining area. The overburden excavated from the quarry is dumping in to three abandoned quarries near to the project site. The project proponent converted a slope area in to benches by systematically dumping the overburden. To prevent soil erosion this has covered with a *geotex* coir mat and planted grass. The photograph of the overburden is attached as Plate **No. 10**.

| 12 | Height of benches should not exceed 5m and width should | Complied |
|----|---|----------|
|    | not be less than 5m.                                    |          |

#### Compliance:

To enhance safety and conserve environment, the project proponent extracted the minerals by creating benches. The benches did not exceed 5 meters of height and the width of the bench is having minimum of 5 meters. The photograph of the benches created in the mining area is provided in **Plate No. 11.** The copy of certificates of second class manager and mines mate are attached at **Annexure No 7 & 8.** 

| 13 | Mats to reduce fly rock blast to a maximum of 15 PPV should | Noted |
|----|---|-------|
|    | be provided.  |       |

#### Compliance:

The project proponent was used blasting mat to reduce fly rocks during blasting. NONEL were used for blasting operation therefore there is no issue with fly

rock in the community and the project proponent also assure the maximum PPV is under 10. The purchasing bill copies of blasting mat is provided in **Annexure No. 1.** 

| 14   | Mining  | depth   | should   | not | exceed | beyond | 40m, | unless | Noted |
|--|---------|---------|----------|-----|--------|--------|------|--------|-------|
| otherwise specifies or not below the level of nearest stream |         |         |          |     |        |        |      |        |       |
|  | bed whi | ichever | is less. |     |        |        |      |        |       |

#### Compliance:

The mining depth did not exceed beyond 40 meter or not below the level of the nearest stream bed, whichever is less. The project proponent has appointed second class manager, foreman and mining mate in the industry to extract the minerals as per mining plan in an eco friendly way. The all activities of these qualified persons are under the supervision and monitoring of Environment Monitoring Cell.

| 15 | Acoustic enclosures should have been provided to reduce      | Complied |
|----|--|----------|
|    | sound amplifications in addition to the provisions of        |          |
|    | greenbelt and hollow brick envelope for crushers so that the |          |
|    | noise level is kept within prescribed standards given by     |          |
|    | CPCB/KSPCB   |          |

#### Compliance:

To reduce the impact of sound to the labours in the unit, the project proponent has provided ear plugs. The machines of crusher unit are housed with hollow bricks. Vegetation around the mining area was helped to reduce noise and air pollution. This helps the noise level kept within prescribed standards. The project proponent is trying to enhance the vegetative cover by planting more tree saplings. The project proponent is regularly monitoring the ambient noise level at the project site. The result of NABEL accredited laboratory of ambient sound level is attached at **Annexure No. 11**. The photograph showing the crusher unit is attached at **Plate No. 12**.

| 16 | Assurance in the form of affidavit should be given to SEIAA   | Complied |
|----|---|----------|
|    | that eco-restoration including the mine closure plan shall be |          |

| done at the own cost of the project proponent. |  |
|--|--|
|  |  |

Assurance in the form of affidavit was already submitted to SEIAA Kerala. Eco – restoration and mine closure plan will be done by the project proponent at own cost. As part of this, the project proponent has planted various species in the project site. The copy of the affidavit is attached at **Annexure No. 10.** 

| 17 | Garland drains to be provided in the lower slopes around the | Complied |
|----|--|----------|
|    | core area to channelize storm water.                         |          |

#### Compliance:

To catch the storm water, the proponent has constructed garland drain around the project site. This drain leads to the rain water collection pond, which is situated at the lowest portion of the project site.

| 18 | Debris/ silt traps to be provided to prevent entry of dust and | Complied |
|----|--|----------|
|    | quarry wastes entering the main streams.                       |          |

#### Compliance:

The project proponent has constructed effective garland drains to catch all the storm water during the time of monsoon season. These channels will be directed to the rain water collection pond. All sediments and silts were being settled at the bottom of the pond and only cleared water let out. The deposited silt at the bottom of pond can collect in summer season by using excavator. The over flow water from the pond is released only through the top area and the outlet of the outward channel is protecting with steel mesh to trap the floating debris. This arrangement prevents the quarry waste from the site to the mainstreams. The photograph showing the silt trap arrangement is attached at **Plate No. 13.** 

| 19 | All other statutory clearances should have been obtained as | complied |
|----|---|----------|
|    | applicable, by the project proponents from the respective   |          |

| competent   | authorities | that | for | blasting | and | storage | of |  |
|-------------|-------------|------|-----|----------|-----|---------|----|--|
| explosives. |             |      |     |          |     |         |    |  |

All statutory clearances, approvals, licenses are obtained from concerned authorities. All conditions stipulated in such approvals are strictly followed. The obtained approvals are mentioned in Table No.4. The certificates obtained from concerned statutory authorities are enclosed in Annexure No. 2, 3, 4, 5 & 6

Table 3 - The details of statutory approvals

| Name of the Statutory approval    | Name of the Statutory authority       |  |  |
|-----------------------------------|---------------------------------------|--|--|
| "Consent to Operate" -<br>Renewal | Kerala State Pollution Control Board  |  |  |
| Environmental Clearance           | State Environmental Impact Assessment |  |  |
| order                             | Authority, Kerala                     |  |  |
| Explosive License                 | Ministry of Commerce & Industry –     |  |  |
|                                   | Petroleum & Explosives Safety         |  |  |
|                                   | Organization (PESO)                   |  |  |
| License for quarry                | Karukutty Gram Panchayat              |  |  |
| operations                        |                                       |  |  |
| Lease order                       | Directorate of Mining and Geology     |  |  |
| Quarrying Lease                   | Government of Kerala                  |  |  |

| 20 | In case of any change(s) in the scope of the project, the  | Noted |
|----|--|-------|
|    | project would require a fresh appraisal by this authority. |       |

#### Compliance:

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

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

| 22 | The stipulations by Statutory Authorities under different Acts | complied |
|----|--|----------|
|    | 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.              |          |

#### Compliance:

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

- ➤ Kerala Minor Mineral Concession Rules, 2015.
- ➤ Mines Act, 1952
- > Explosive Rules, 2008
- > Kerala Panchayat Raj Act, 1994
- > Water Pollution (Prevention & Control) Act, 1974
- ➤ Air Pollution (Prevention & Control) Act, 1981
- > Environment Protection Act, 1986
- > EIA Notification, 2006 / 2009

The project proponent should advertise in at least two local newspapers widely circulated in the region. One of which shall be in the vernacular language informing that the project has been accorded environmental clearance and copies of clearance letters area 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. The advertisement should be made within 10 days from the date of receipt of the clearance letter and a copy of the same should be forwarded to the office of this authority as confirmation.

#### Complied

#### Compliance:

An advertisement in two newspaper regarding the accordance of environmental clearance to the quarrying activity was given within stipulated period and the copy of the same was submitted to SEIAA. The copy of newspaper advertisement is provided at **Annexure No. 9.** 

| 24 | A copy of the clearance letter shall be sent by the proponent | Complied |
|----|---|----------|
|    | to concerned Gram Panchayat / District Panchayat /            |          |
|    | 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      |          |
|    | clearance letter shall also be put on the website of the      |          |
|    | company by the proponent.                                     |          |

#### Compliance:

A copy of the environmental clearance letter was submitted to Karukutty Grama Panchayat office on 26/11/2013. Its inward no. is 7405/13. There were no suggestions/representations received while processing the proposal. The environmental clearance order is uploaded in the website of the company and it can be seen in the website www.plantersgroup.com.

| 25 | The proponent shall submit six monthly reports on the         | complied |
|----|---|----------|
|    | status of compliance of the stipulated EC conditions          |          |
|    | including results of monitored data (both in hand 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.              |          |

The compliance report is being regularly submitted to the Regional Office of MoEF&CC, Govt. of India and State environment Impact Assessment Authority, (SEIAA) Kerala as mail. The result of monitored data is provided in compliance report. The monitored results are attached as **Annexure No. 11, 12 & 13.** 

| 26 | The conditions of the environmental clearance should be       | Complied |
|----|---|----------|
|    | prominently displayed in a metallic board of 3 ft x 3 ft with |          |
|    | green background and yellow letters of Times New Roman        |          |
|    | fond size of not less than 40.                                |          |

#### Compliance:

The details of the Environmental Clearance are displayed on metallic board in the project site. The metallic board as specified in the conditions of Environmental Clearance order of 3 ft x 3 ft with green background and yellow letters of Times New Roman font. Same is attached as **Plate No. 14.** 

| 27 | The proponent shall provide affidavit that all the conditions | Complied |
|----|---|----------|
|    | stipulated in the EC shall be scrupulously followed.          |          |

#### Compliance:

An affidavit stating that all the conditions stipulated in the Environmental clearance will be scrupulously followed was submitted to State Environmental Impact Assessment Authority. The copy of affidavit submitted at SEIAA is attached at Annexure No. 10.







Drainage in the project site

Plate No.2



Rain water collection pond exist in the project site



Rain water collection tank





The natural vegetation maintained along the roadside



Solar street lights installed near to the magazine PLATE No. 5



Sprinklers Installed in the project area



Benches made by over burden and covered by coir mat PLATE No. 7



Barbed metal wire fencing with a height of 5 meter



Device for alarm prior to the blasting



Sign board mentioned danger and time of blasting



Tarred road to the crusher unit
PLATE No. 10



Over burden managed within the site



Minerals explored with bench system of 5 m width and height PLATE No.12



Crusher unit existing in the project site

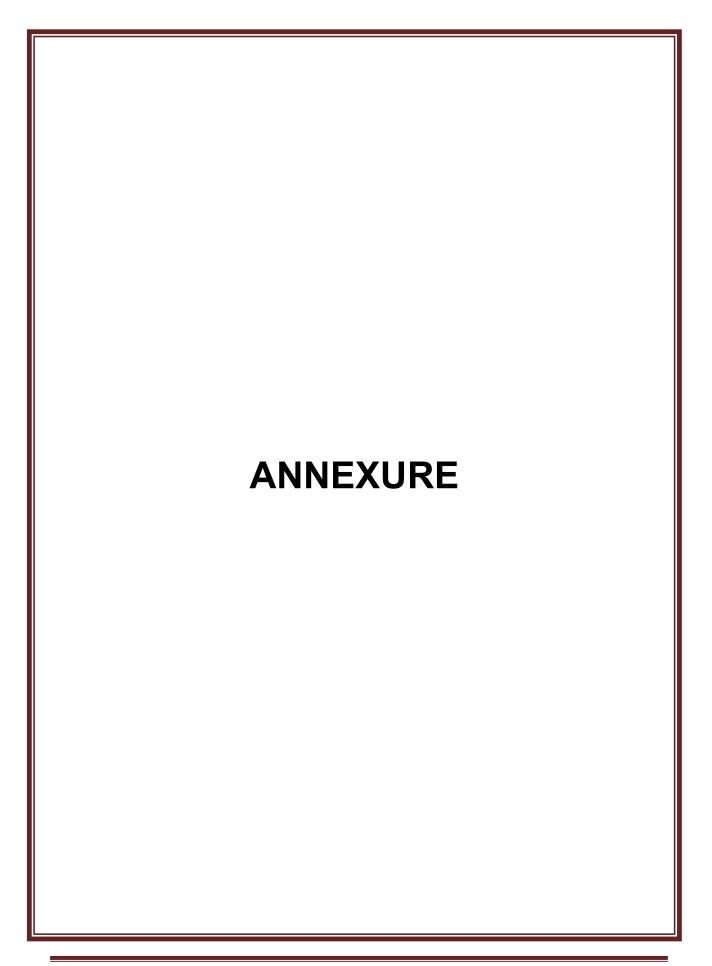


Slit trap to prevent quarry wastes entering in to the main stream

**PLATE No. 14** 



Metallic board described the details of EC



#### **ANNEXURE No. 1**

|             | MINER.   | Olahal Milana I Minaka  | Invoice No   | e-May Rill   | No. Dated  | 1.                     | *   | 1 |
|-------------|--|---|--|--|--|------------------------|---|---|
| - 5         | SPECIAL SPECIA | Global Mineral Works<br>S.NO: 210 & 211   | GMW/19-20/0  | The second secon | 755 10-A   |                        | 19  |   |
| G           | (TTX)  | IDA BOLLARAM<br>SANGAREDDY  | Delivery N   |  |  |                        | s of Payment  |   |
|             |  | Mobile No: 9705009875   | 116  |  |  |                        |   |   |
| 100         |  | GSTIN/UIN: 36APHPT3972L1Z5<br>State Name: Telangana, Code:  | Supplier's   | Ref.   | Other  | Refe                   | rence(s)  |   |
|             |  | E-Mail: accounts@globalmineral.i  | n 116  |  |  |                        |   |   |
| 1000        | onsignee   |   | Buyer's Or   | der No.  | Dated  |                        |   |   |
|             | LANTERS AG   |   |  |  |  |                        |   |   |
|             | STIN/UIN   | HATTUMUGHAM PO, ERNAKULA<br>: 32AEGPV9147K1ZY   |  | Document No.   |  | 711                    | te Date   |   |
|             | AN/IT No   | : AEGPV9147K  | 116<br>Despatche   | d through  | 10-Ap  |                        |   |   |
| St          | tate Name  | : Kerala, Code : 32   | By Road  | a tillough   | Ernal  |                        |   |   |
|             | uyer (if other tha   |   |  | ng/LR-RR No.   | Motor  |                        |   |   |
|             | LANTERS AG   | GREGATES<br>HATTUMUGHAM   | 3.12   |  | TN33   |                        |   |   |
| P           | O, ERNAKULA  | AM  | Terms of D   | elivery  |  |                        |   |   |
|             | STIN/UIN<br>AN/IT No   | : 32AEGPV9147K1ZY<br>: AEGPV9147K   |  |  |  |                        |   |   |
| St          | tate Name  | : Kerala, Code : 32   |  | *  |  |                        |   |   |
|             | lace of Supply<br>ontact person  |   |  |  |  |                        |   |   |
|             | A CONTRACTOR OF THE PARTY OF TH | Saji Vadakkekara<br>9605040020  |  |  |  |                        |   |   |
|             |  |   |  |  |  |                        | 100   |   |
| 1           |  |   |  |  |  |                        |   |   |
| SI<br>No.   |  | Description of Goods  | HSN/SAC  | Quantity   | Rate   | per                    | Amount  |   |
| 1           | B.Mats   |   | 40040000   | . 40 11  | 27 000 00  | ŃI-                    |   |   |
| 1           | B.Mats   |   | 40040000   | 10 Nos   | 37,000.00  | Nos                    | 3,70,000.00   |   |
|             |  |   |  |  |  |                        | 2   |   |
|             |  | IGST @ 18% Out  | tput ·   |  |  |                        | 66,600.00   |   |
|             |  |   |  |  |  |                        |   |   |
|             |  |   |  |  |  |                        |   |   |
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|             | and the same of  |   |  |  |  |                        |   |   |
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|             |  |   |  |  |  |                        |   |   |
| Am          | out Chargophia   |   | Fotal ·  | 10 Nos   |  |                        | ₹ 4,36,600.00   |   |
|             | nount Chargeable   | (in words)  | . ,  | 10 Nos   |  |                        | ₹ 4,36,600.00<br>E. & O.E   |   |
|             |  |   | . ,  |  | Integrate  | d Tay                  | E. & O.E  |   |
|             |  | (in words)  | . ,  | Taxable  | Integrate<br>Rate A  | d Tax                  | E. & O.E  |   |
|             |  | (in words)  | Only   | Taxable Value 3,70,000.00  | Rate A<br>18% 6  | mour<br>6,600          | E. & O.E  Total Tax Amount .00 66,600.00  |   |
| III         | R Four Lakh  | (in words)<br>Γhirty Six Thousand Six Hundred   | Only Total:  | Taxable<br>Value<br>3,70,000.00<br>3,70,000.00   | Rate A<br>18% 6  | mour                   | E. & O.E  Total Tax Amount .00 66,600.00  |   |
| III         | R Four Lakh  | (in words)  | Only Total:  | Taxable<br>Value<br>3,70,000.00<br>3,70,000.00   | Rate A<br>18% 6  | mour<br>6,600          | E. & O.E  Total Tax Amount .00 66,600.00  |   |
| III         | R Four Lakh  | (in words)<br>Γhirty Six Thousand Six Hundred   | Only Total:  | Taxable<br>Value<br>3,70,000.00<br>3,70,000.00   | Rate A<br>18% 6  | mour<br>6,600          | E. & O.E  Total Tax Amount .00 66,600.00  |   |
| III         | R Four Lakh  | (in words)<br>Γhirty Six Thousand Six Hundred   | Only Total:  | Taxable<br>Value<br>3,70,000.00<br>3,70,000.00   | Rate A<br>18% 6  | mour<br>6,600          | E. & O.E  Total Tax Amount .00 66,600.00  |   |
| III         | R Four Lakh  | (in words)<br>Γhirty Six Thousand Six Hundred   | Only Total:  | Taxable<br>Value<br>3,70,000.00<br>3,70,000.00   | Rate A<br>18% 6  | mour<br>6,600          | E. & O.E  Total Tax Amount .00 66,600.00  |   |
| III         | R Four Lakh  | (in words)<br>Γhirty Six Thousand Six Hundred   | Only Total:  | Taxable<br>Value<br>3,70,000.00<br>3,70,000.00   | Rate A<br>18% 6  | mour<br>6,600          | E. & O.E  Total Tax Amount .00 66,600.00  |   |
| Tax         | R Four Lakh  | (in words) Thirty Six Thousand Six Hundred six Hundred six Hundred  | Only  Total: Hundred Only                                    | Taxable Value 3,70,000.00 3,70,000.00  | Rate A<br>18% 6  | mour<br>6,600          | E. & O.E  Total Tax Amount .00 66,600.00  |   |
| Tax         | R Four Lakh  | (in words)<br>Γhirty Six Thousand Six Hundred   | Only  Total: Hundred Only  Company's                         | Taxable Value 3,70,000.00 3,70,000.00  | Rate A<br>18% 6<br>6   | mour<br>6,600<br>6,600 | E. & O.E  Total Tax Amount .00 66,600.00  |   |
| Tax         | R Four Lakh  | (in words) Thirty Six Thousand Six Hundred s): INR Sixty Six Thousand Six I : APHPT3972L  | Total: Hundred Only  Company's Bank Name                     | Taxable Value 3,70,000.00 3,70,000.00  | Rate A<br>18% 6<br>6   | - CA                   | E. & O.E  Total Tax Amount .00 66,600.00  |   |
| Tax Cor Dec | x Amount (in word  | (in words) Thirty Six Thousand Six Hundred s): INR Sixty Six Thousand Six I APHPT3972L is invoice shows the actual price of the d that all particulars are true and correct                                   | Total: Hundred Only  Company's Bank Name A/c No.             | Taxable Value 3,70,000.00 3,70,000.00 Sank Details : Axis : 9120   | Rate A<br>18% 6<br>6<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8 | - CA                   | E. & O.E  Total Tax Amount .00 66,600.00 .00 66,600.00  |   |
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| Tax Cor Dec | x Amount (in word  | (in words) Thirty Six Thousand Six Hundred s): INR Sixty Six Thousand Six I APHPT3972L is invoice shows the actual price of the d that all particulars are true and correct                                   | Total: Hundred Only  Company's Bank Name A/c No. Branch & IF | Taxable Value 3,70,000.00 3,70,000.00  Sank Details : Axis : 9120 S Code: Nizar  | Bank Ltd<br>200175152<br>mpet & UT   | - CA<br>207<br>1B00    | E. & O.E  Total Tax Amount .00 66,600.00 .00 66,600.00  Double of the control of |   |
| Tax Cor Dec | x Amount (in word  | (in words) Thirty Six Thousand Six Hundred s): INR Sixty Six Thousand Six I APHPT3972L is invoice shows the actual price of the d that all particulars are true and correct                                   | Company's Bank Name A/c No. Branch & IF                      | Taxable Value 3,70,000.00 3,70,000.00  Sank Details : Axis : 9120 S Code: Nizar  | Bank Ltd<br>200175152<br>mpet & UT   | - CA<br>207<br>1B00    | E. & O.E  Total Tax Amount .00 66,600.00 .00 66,600.00  |   |
| Tax Cor Dec | x Amount (in word  | (in words) Thirty Six Thousand Six Hundred s): INR Sixty Six Thousand Six I  : APHPT3972L is invoice shows the actual price of the d that all particulars are true and correct and Signature                  | Total: Hundred Only  Company's Bank Name A/c No. Branch & IF | Taxable Value 3,70,000.00 3,70,000.00  Bank Details : Axis : 9120 S Code: Nizar  | Bank Ltd<br>200175152<br>mpet & UT   | - CA<br>207<br>1B00    | E. & O.E  Total Tax Amount .00 66,600.00 .00 66,600.00  Double of the control of |   |
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| Tax Cor Dec | mpany's PAN claration declare that this described an   | (in words) Thirty Six Thousand Six Hundred s): INR Sixty Six Thousand Six I : APHPT3972L is invoice shows the actual price of the d that all particulars are true and correct and Signature  SUBJECT TO SANGA | Total: Hundred Only  Company's Bank Name A/c No. Branch & IF | Taxable Value 3,70,000.00 3,70,000.00  Bank Details : Axis : 9120 S Code: Nizar  | Bank Ltd<br>200175152<br>mpet & UT   | - CA<br>207<br>1B00    | E. & O.E  Total Tax Amount .00 66,600.00 .00 66,600.00  Double of the control of |   |

Bill copy of blasting mat

#### **ANNEXURE No. 2**



## Proceedings of the State Environment Impact Assessment Authority Kerala Present: Dr. A.E. Muthunayagam, Chairman; Prof. (Dr.) K.P. Joy, Member; Sri. James Varghese IAS, Member Secretary

Sub: SEIAA Kerala - Proposed quarry project in Survey No. 168 at Karukutty Village, Karukutty Panchayath, Alwaye Taluk, Ernakulam District, Kerala by M/s Planters Aggregates - Environmental Clearance under EIA Notification 2006 accorded - Orders issued

#### **Environmental Clearance**

No. 58/SEIAA/KL/7586/2012

dated, Thiruvananthapuram 15-03-2013

#### **ORDER**

The Proprietor of M/s Planters Aggregates, vide their application received on 14-11-2012, has sought environmental clearance under the EIA Notification, 2006 for the quarry project at Karukutty Village, Karukutty Panchayath, Alwaye Taluk, Ernakulam District, Kerala. The proposal has been appraised by the State Level Expert Appraisal Committee Kerala constituted by the competent authority, as per prescribed procedure in the lights of provisions under the EIA Notification 2006 and subsequent amendments, in its 10<sup>th</sup> meeting held on 26<sup>th</sup> and 27<sup>th</sup> November 2012 and also in the 12<sup>th</sup> meeting held on 2<sup>nd</sup> February, 2013 AND on the basis of the supporting documents enclosed with the application viz., the Form – 1, questionnaire for mining projects, pre-feasibility report, Environment Management Plan and the additional clarifications furnished in response to the observations, the SEAC Kerala recommended environmental clearance to the project.

It is interalia, noted that the project comes under the Category B, Activity 1(a) of Schedule of EIA Notification 2006. The proposed project site falls within 10°16'N and 76°25' E. The proposed project is for quarrying of 2,88,000 TPA of building granite stone from an area of 4.8033 hectare of land. The expected life of mine will be 16 years. The proposed activity involves about 75 % of the pit area for exploring granite building stone. At the end of life of mine, the reclaimed area will be suitably planted and the remaining void at lower levels of excavated pit will be utilized as water storage/ground water recharge and will be utilized for domestic/agricultural purposes. The proposed project does not involve any underground mining activities. The mining will be done by open cast semi mechanised method of mining. The bench height and width proposed is 5 m. The exploitation of mineral is being done from 145-30 m RL in conceptual phase. A total quantity of 24,000 m3 of top soil from two pits will be removed during the mining operations. The top soil excavated from the quarry shall be dumped separately at predetermined place and subsequently will be utilized in spreading over reclaimed areas for plantation. The top soil will be utilized for green belt development/plantation and will also be utilized for filling the low lying areas or adjacent quarry site. The sewage of 0.8 KLD generated from the mine office will be diverted to the septic tank followed by soak pit. The daily water requirement of 5 KLD will be met from storm water / bore well. There will be fugitive emissions generated during material handling, transportation, loading, unloading, etc. that are proposed to be managed by regular water sprinkling on haul road, green belt development, avoiding overloading of vehicles and limiting the speed of the vehicles. Excavated material is transported to the crusher located at a distance of 0.15 km from the quarry site for further processing.

The SEIAA considered the proposal in its 13<sup>th</sup> meeting held on 13<sup>th</sup> December 2012 and 15<sup>th</sup> meeting held on 22<sup>nd</sup> February 2013. The SEIAA, after due consideration of the relevant documents and additional clarifications submitted by the project proponent, and in view of the recommendations of SEAC, approved for issuance of Environmental Clearance for the project mentioned above at its 15<sup>th</sup> meeting held on 22<sup>nd</sup> February 2013. Accordingly, the State Level Environment Impact Assessment Authority (SEIAA) Kerala constituted by Govt. of India vide Notification No. S.O. 2484(E) dt.3-11-

Page 1 of 4

2011 of Ministry of Environment and Forests, Govt. of India, published as Gazette extraordinary No. 2074 on 3-11-2011, hereby accord necessary Environmental Clearance for the above project as per powers vested with it under the provisions of Environment Impact Assessment Notification – 2006 and subsequent amendments and also under the provisions made in the O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> May 2012 of the Ministry of Environment and Forests, Government of India, and further subject to strict compliance of the following specific conditions, and the general conditions contained in the Annexure, which shall also form a part of this document.

- Storm water drainage channels and drainage line to the existing pond in the site and its exit from the site should be made fully functional.
- 2. The depth of mining should be restricted to the 30 m level as agreed in the proposal.

Compliance of the above conditions will be monitored by the Directorate of the Department of Environment and Climate Change, Government of Kerala or its agencies and also by the Regional Office of the Ministry of Environment and Forests, Government of India located at Bangalore. Necessary support for entry and inspection should be provided by the project proponent to the staff of the Directorate and Ministry for monitoring purposes.

The given address of correspondence of the Authorized Signatory of the project is:- Mr. Saji Vadakkekara, Proprietor, M/s Planters Aggregates, Palissery, Ezhattumugham P.O., Ernakulam, Kerala - 683577; Telephone No: 0484-2439166, 2439167; E-mail: plantersgroup@yahoo.com

Agency with NABET accreditation for EIA is:- M/s Enkay Enviro Services, 24-B, Basement, Dadu Marg, Gopal Bari, Jaipur-302001; Tel. No. 0141-2363996/4023996; Fax No: 0141-5118996; E-mail: info@enkayenviro.com

James Varghese IAS
Member Secretary, SEIAA
and Principal Secretary to Government
Environment Department

To

Mr. Saji Vadakkekara Proprietor M/s Planters Aggregates Palissery, Ezhattumugham P.O. Ernakulam, Kerala – 683577.

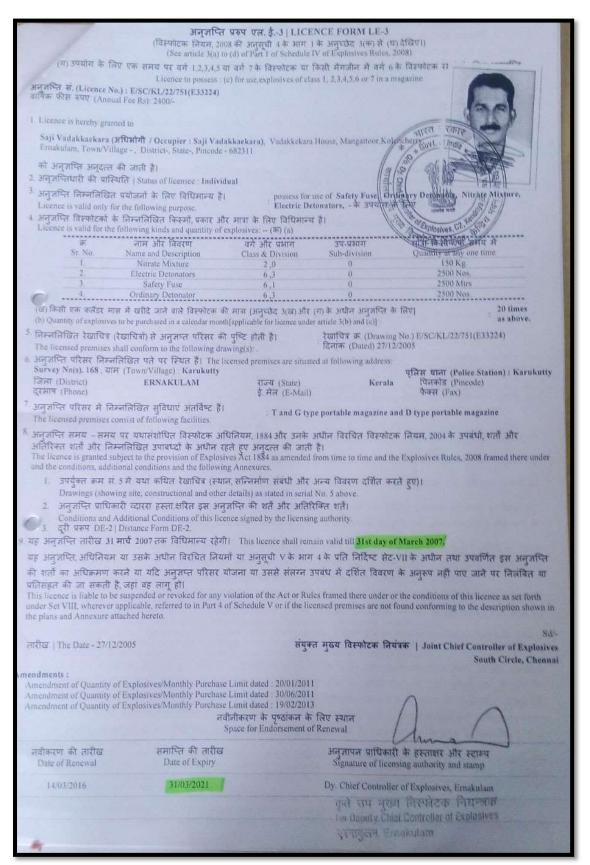
#### Copy to:

- The Principal Secretary, Environment Dept., Government of Kerala, Secretariat
- 2. The Director, Dept. of Environment and Climate Change, Govt. o.f Kerala, Tvm 24.
- IA-Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi - 110003
- MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E&F Wing, II Block Koramangala, Bangalore-560034
- 5. Chairman and Members of SEIAA Kerala
- 6. Chairman, SEAC Kerala
- 1. Website uploading
  - 8. Stock file

Page 2 of 4

#### **EC** order

#### Annexure No.3



License to possess and use of Explosives

5.883614



# KERALA STATE POLLUTION CONTROL BOARD

FILE NO.: PCB/EKM/DO-1/OA-404/15

Date of issue :07/03/2019

# INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No: R15ERRCTOR964788

Ref: 1. R15ERRCTOA964872, DATED: 10.04.2015
2. Consent No: R15ERRCTO964788 Dated: 08.03.2016

The 'Integrated Consent to Operate' issued as per reference above to M/s PLANTERS AGGREGATES OWNED BY SAJI VADAKKEKARA, PALISSERY, EZHATTUMUGHAM P.O - 683577 is hereby renewed up to 31/03/2024 and issued to M/s PLANTERS AGGREGATES OWNED BY SAJI VADAKKEKARA, PALISSERY, EZHATTUMUGHAM P.O - 683577 The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

#### I. GENERAL

| S.No. | Items              | Description  |
|-------|--------------------|--------------|
| 1     | Survey No.         | 168          |
| 2     | Category           | RED          |
| 3     | Validity           | 31.03.2024   |
| 4     | Capital investment | Rs.92 Lakhs  |
| 5     | Annual Fee         | Rs.22,000/-  |
| 6     | Fee Remitted       | Rs.131,874/- |

### II. Stack Details

| Stack No. | Source of | Emission     | Stack Heig                 | ght above                | Control   |
|-----------|-----------|--------------|----------------------------|--------------------------|-----------|
|           | Emission  | Rate(Nm3/Hr) | Ground Level(In<br>Meters) | Roof Level(In<br>Meters) | Equipment |

# III. CONDITIONS

Page

- 3.1 The consent issued will be valid only for a period, during the period when all other statutory or necessary clearances from other concerned authorities valid.
- 3.2 The consent issued from the board is only with respect to the powers vested under the water Act 1974 Air Act 1981 and The Rules there under. The operation of the quarry shall be commenced only after obtaining clearances from all concerned Authorities.
- 3.3 There shall not be any quarrying activity between 6 pm to 6 am
- 3.4 Mining activities shall be done only in the area marked by Mining & Geology.
- 3.5 The PM10 in ambient air at the boundary shall not exceed 100 microgram/m3
- 3.6 The PM 2.5 in ambient air at the boundary shall not exceed 60 microgram/m3
- 3.7 The sound level (Leq)at 1 m outside the boundary of the site should not exceed the ambient noise Standard applicable to the adjoining areas.
- 3.8 Conditions given in the Environmental clearance shall be strictly complied with.
- 3.9 Mining shall be done only in the marked area in the mining plan attached with EC

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

Digitally signed by MINI MARY

MINI MARY SAM Date: 2019.03.07 16:53:26

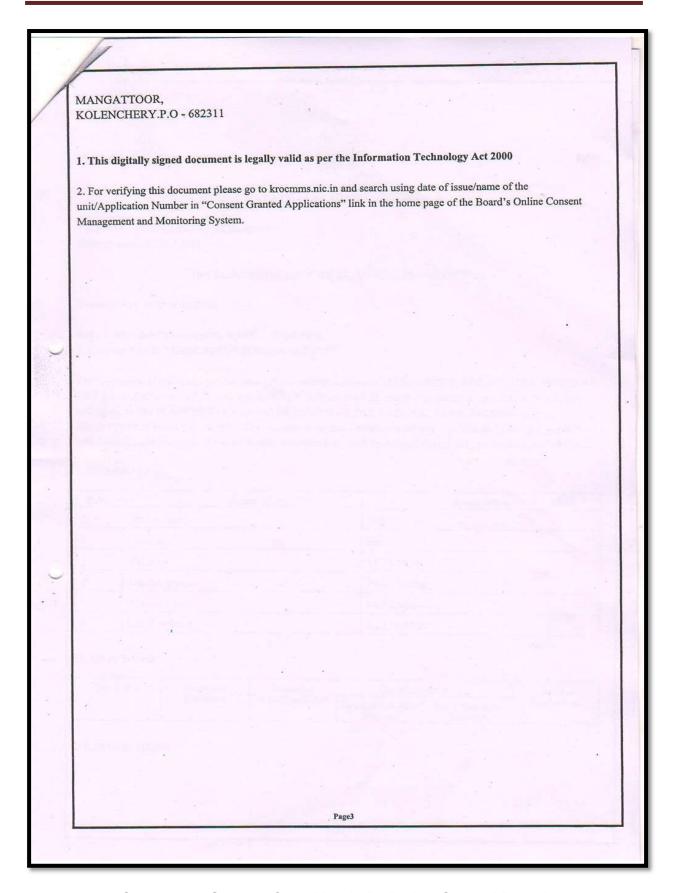
DATE :07/03/2019 SIGNATURE & SEAL C

SIGNATURE & SEAL OF ISSUING AUTHORITY ENVIRONMENTAL ENGINEER

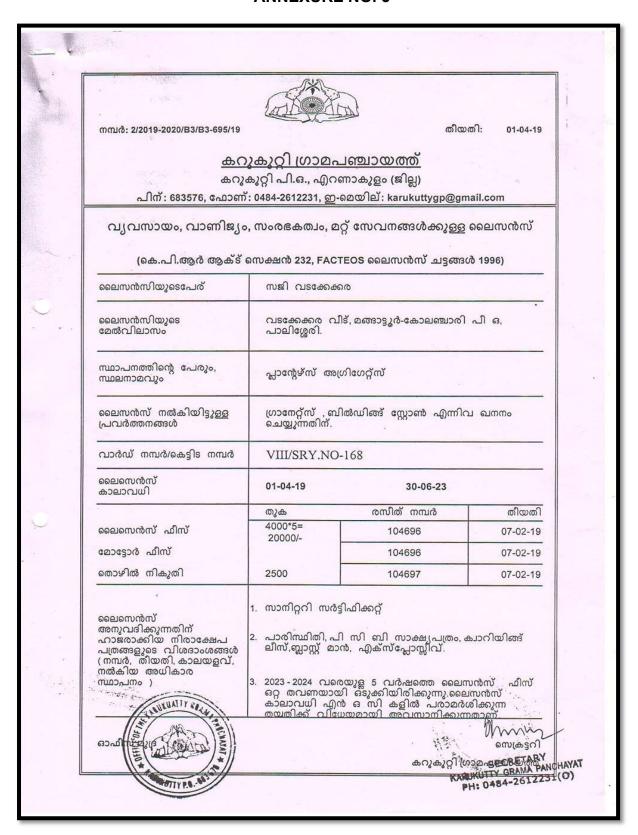


To SAJI VADAKKEKARA, VADAKKEKARA HOUSE,

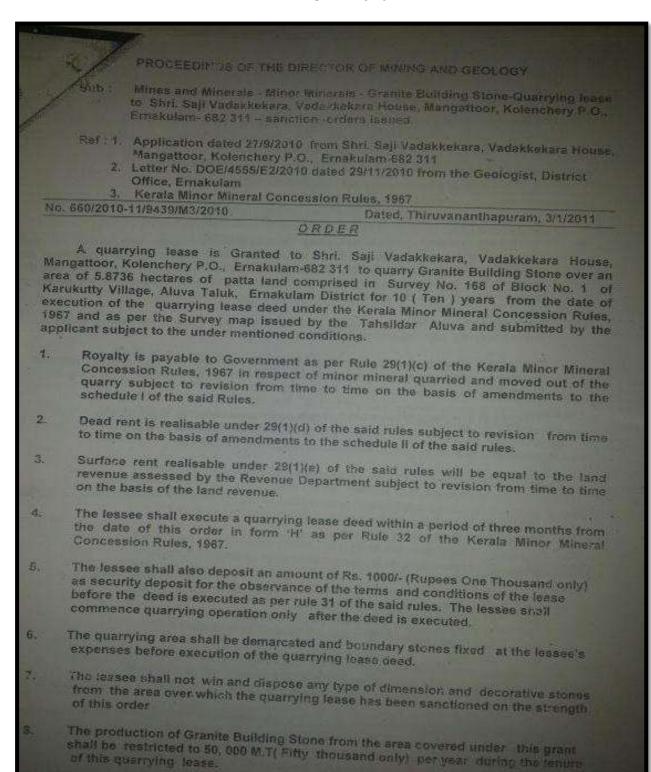
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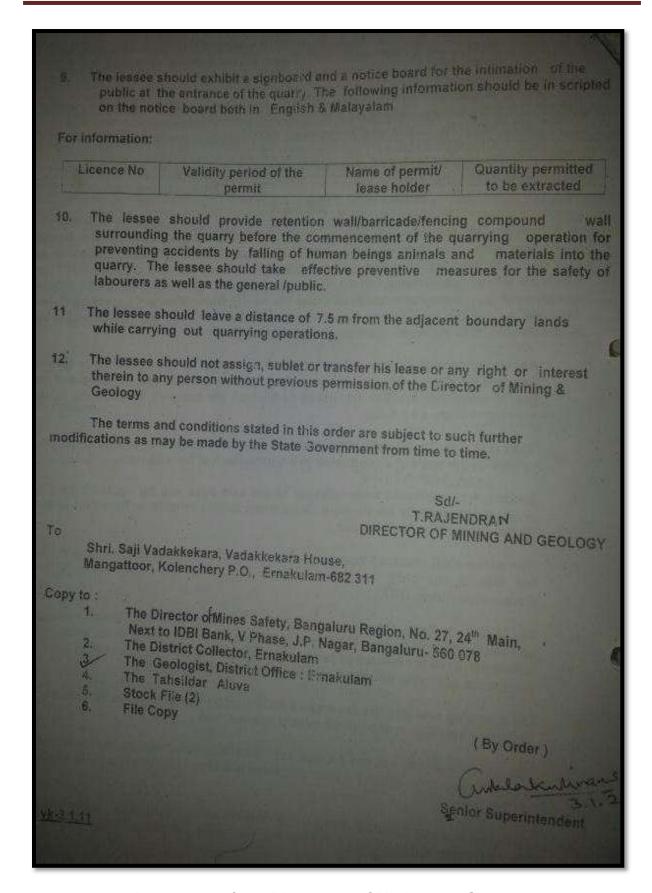


**Concent to Operate from Kerala Pollution Control Board** 

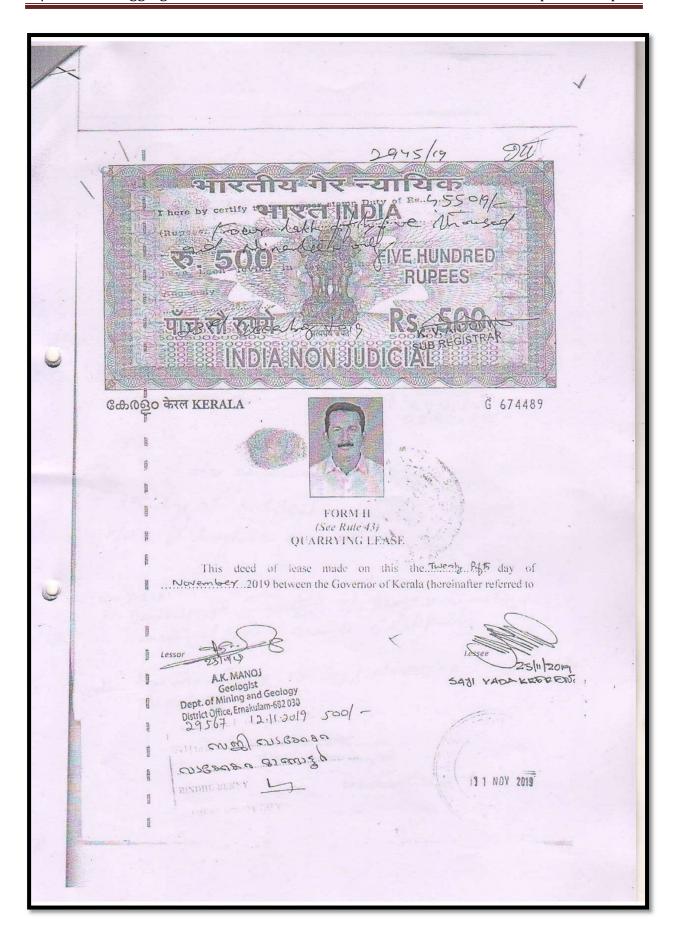


License from Gram Panchayat





Lease order from Directrotre of Mining and Geology



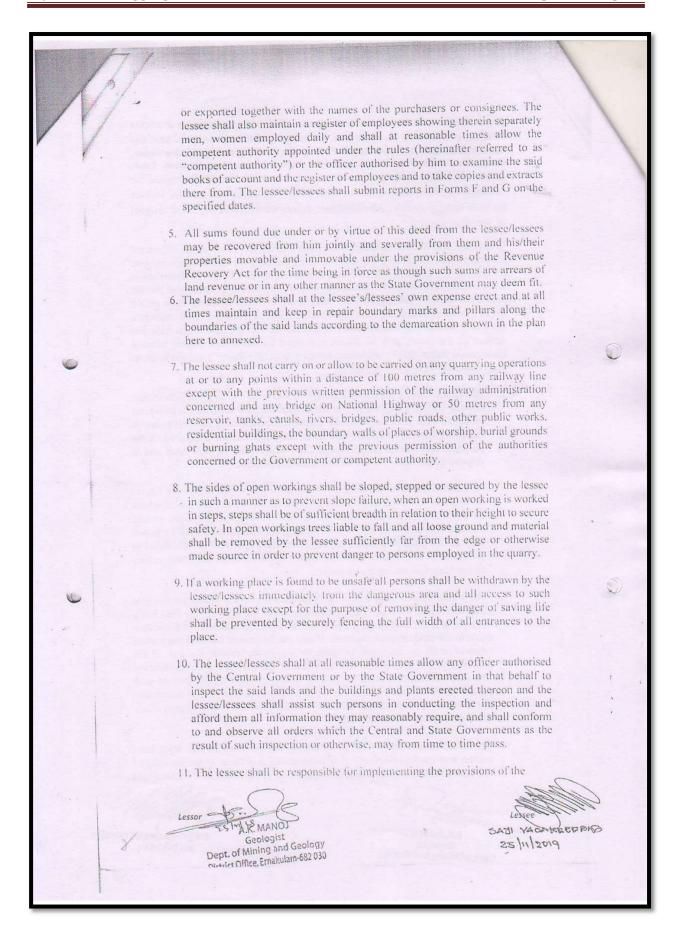
as the "State Government" which expression shall, where the context so admits be deemed to include his successors and assigns) of the one part and Shri. Saji Vadakkekara, aged 51 years, S/o. V. P. Varghese, residing at Vadakkekara House, Mangattoor, Kolenchery P. O, Aikaranad North Village, Kunnathunadu Taluk, Ernakulam District - 682 311 (Aadhaar No. 2820 1755 7933) (hereinafter called the "lessee/lessees" which expression shall where the context so admits, include his/their heirs, executors, administrators, representatives and permitted assigns) of the other part. Witnesseth that in consideration of the rents and royalties and lessee's/Lessees' covenants, hereinafter reserved and contained the State Government hereby give on lease to the lessee/lessees the land measuring 4.1885 hectares described in the schedule hereunder and delineated on the plan hereto annexed and therein coloured red (hereinafter called the "said lands") to hold the same for a period of 12 (Twelve) years commencing from the 25.11. 2019 and ending on the 24.11.2031... for the purposes of extracting minor mineral/minerals and subject to the terms and conditions contained in the Kerala Minor Mineral Concession Rules, 2015 (hereinafter referred to as "the Rules") and to the terms and conditions hereinafter appearing The lessee/lessees shall have the right in and upon the said lands to extract Granite Building Stone (here in after called the said mineral/minerals) and to do all acts necessary for the extraction of the said mineral/minerals including the erection on the said lands, buildings and plant required for the purposes and also to take lead and carry away over the said lands and to dispose of the said minerals extracted as aforesaid. The lessee/lessees shall during the subsistence of this lease have the liberty to work the said mineral/minerals and remove the same from the leasehold on permits issued by the State Government/competent authority or any other officer authorized by him in this regard. The permits shall be issued only on the basis of pre-paid royalty at the rates specified in Schedule I to these Rules. The royalty rates shall be subject to revision from time to time as the State Government may order. 3. The lessee/lessees shall pay to the State Government a yearly surface rent equal to the land revenue if any, assessable under the rules for the time being in force, or if the land be the property of Government or in reserve forest then equal to the land revenue plus cess, if any, per hectare of the land the surface whereof shall be occupied or used by the lessee/lessees for any of the purposes of this deed and so in proportion for any area less than one hectare. The said surface rent shall be paid by yearly payments; the first of such payments to be made on or before the last day of the first year of occupation provided always that no such rent shall be paid or demanded in respect of any roads or ways now in existence. 4. The lessee/lessees shall at all times during the currency of this lease keep correct and intelligible books of account showing accurately the quantity of

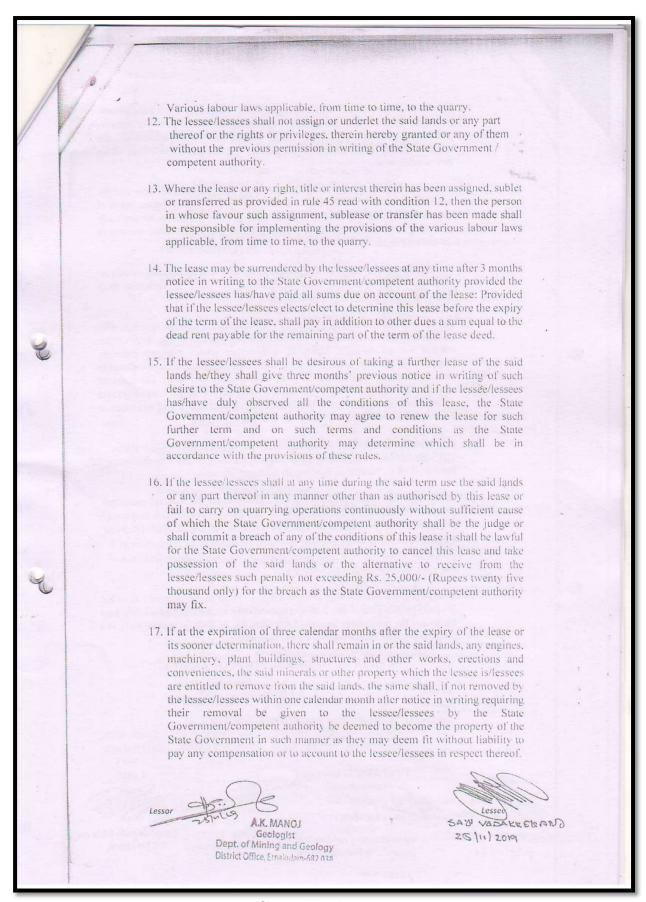
the said minerals extracted and the weight and value of the said mineral sold

A.K. MANOJ

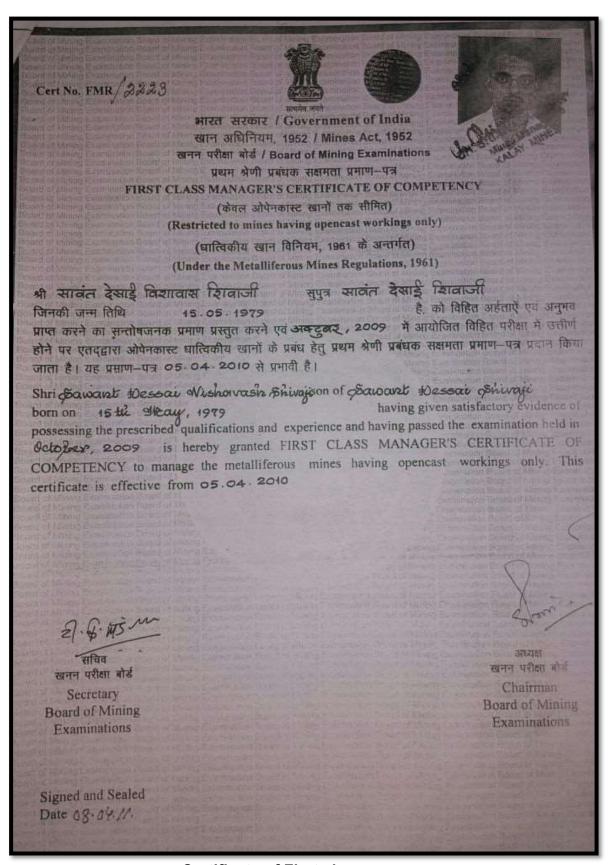
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25/11/2019

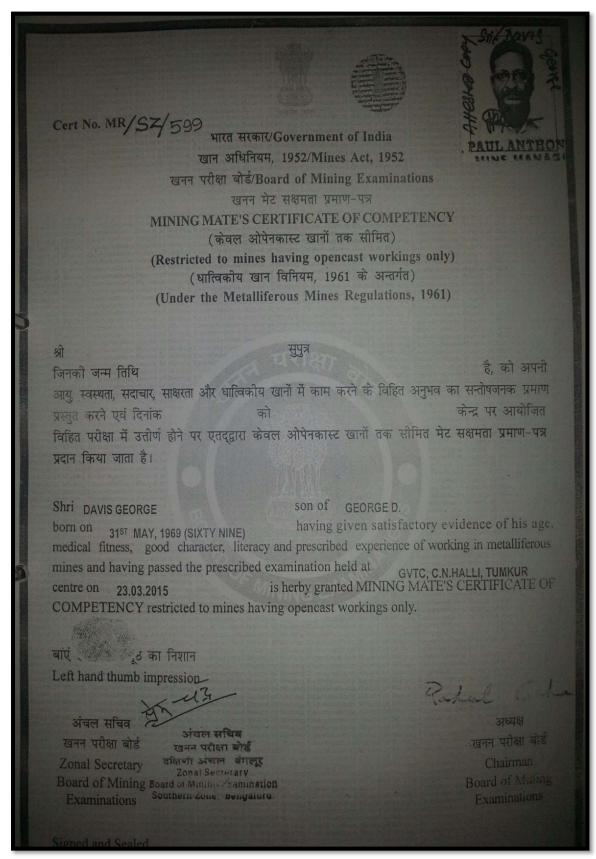




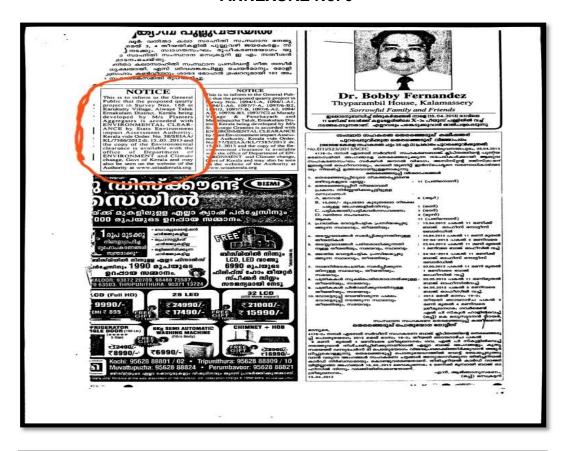
**Quarrying Lease** 

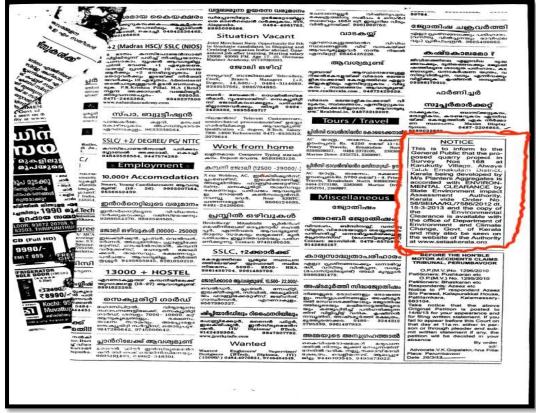


Certificate of First class manager

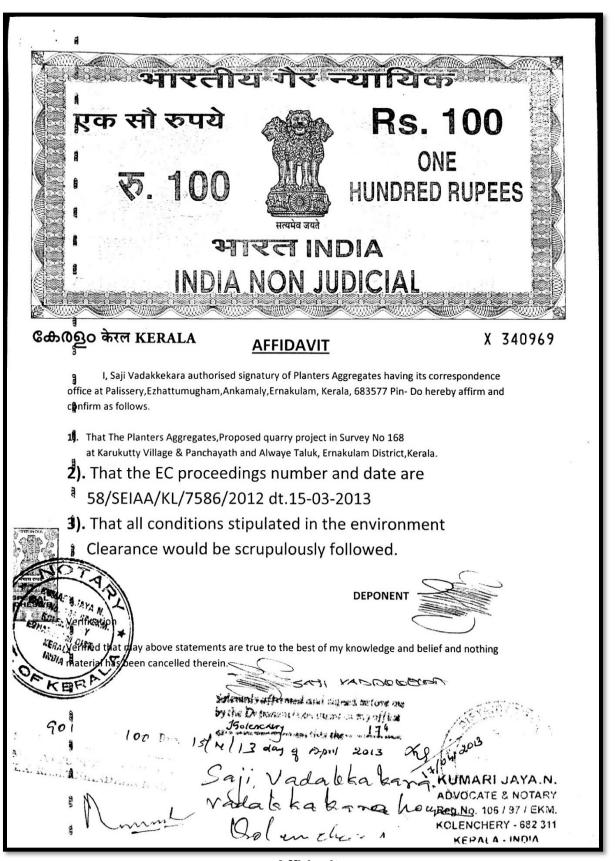


**Certificate of Mining mate** 





Advertisement in two news paper



**Affidavit** 

# **Standards**



# **TEST REPORT**

| ULR No.: TC1293924000006691F |                  |             |  |
|------------------------------|------------------|-------------|--|
| LRI No.: SEAAL24031748A      | Date: 22-03-2024 | Page 1 of 1 |  |

|                         | CUSTOMER DETAILS   |
|-------------------------|--|
| Customer Name & Address | M/s Planters Aggregates  Karukutty, Aluva,  Ernakulam District |
| Customer Reference      | Test Request Date: 16-03-2024                                  |

| DETAILS OF MONITORING |                       |                         |                        |  |
|-----------------------|-----------------------|-------------------------|------------------------|--|
| Product Category      | Atmospheric Pollution | Sample Code             | EN24030899             |  |
| Sample Name           | Ambient Noise         | Monitoring Commenced on | 16-03-2024             |  |
| Monitoring Location   | South side Boundary   | Monitoring Completed on | 17-03-2024             |  |
| Test Method           | IS 9989:1981 RA:2008  | Monitored by            | Lab Authorized Sampler |  |

| SAMPLING SITE DETAILS |                |       |        |  |  |
|-----------------------|----------------|-------|--------|--|--|
| Survey No             | 168, Block - 1 |       |        |  |  |
| Village               | Karukutty      | Taluk | Aluva  |  |  |
| District              | Ernakulam      | State | Kerala |  |  |

|       | MONITORING RESULTS - Leq |       |               |       |               |  |  |
|-------|--------------------------|-------|---------------|-------|---------------|--|--|
| TIME  | RESULTS dB(A)            | TIME  | RESULTS dB(A) | TIME  | RESULTS dB(A) |  |  |
| 06:00 | 38.3                     | 14:00 | 51.4          | 22:00 | 37.1          |  |  |
| 07:00 | 41.1                     | 15:00 | 51.7          | 23:00 | 35.9          |  |  |
| 08:00 | 45.4                     | 16:00 | 52.9          | 24:00 | 38.5          |  |  |
| 09:00 | 49.0                     | 17:00 | 53.3          | 01:00 | 39.2          |  |  |
| 10:00 | 51.4                     | 18:00 | 47.8          | 02:00 | 38.9          |  |  |
| 11:00 | 54.5                     | 19:00 | 44.2          | 03:00 | 39.6          |  |  |
| 12:00 | 51.7                     | 20:00 | 40.3          | 04:00 | 38.5          |  |  |
| 13:00 | 51.0                     | 21:00 | 39.8          | 05:00 | 40.3          |  |  |

| Sl. | PARAMETERS  | UNIT  | RESULT |
|-----|---|-------|--------|
| 1   | Ambient Sound Level (Leq) Day Time (06:00 to 22:00)   | dB(A) | 49.8   |
| 2   | Ambient Sound Level (Leq) Night Time (22:00 to 06:00) | dB(A) | 38.9   |

Remarks:

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

Shency Joy TM-Chemical Checked by: Standards bo

Laiju P N Laboratory Head Authorized Signatory

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# Result of ambient sound level

# **Standards**



# TEST REPORT

| ULR No.: TC1293924000006690F |                  |             |  |
|------------------------------|------------------|-------------|--|
| LRI No.: SEAAL24031747A      | Date: 22-03-2024 | Page 1 of 1 |  |

| CUSTOMER DETAILS        |                               |  |  |  |
|-------------------------|-------------------------------|--|--|--|
|                         | M/s Planters Aggregates       |  |  |  |
| Customer Name & Address | Karukutty, Aluva,             |  |  |  |
|                         | Ernakulam District            |  |  |  |
| Customer Reference      | Test Request Date: 16-03-2024 |  |  |  |

| SAMPLE DETAILS               |                        |                    |            |  |  |
|------------------------------|------------------------|--------------------|------------|--|--|
| Product Category             | Atmospheric Pollution  | Sample Code        | EN24030898 |  |  |
| Sample Name                  | Ambient Air            | Sample Received on | 17-03-2024 |  |  |
| Sample Conditions at Receipt | Fit for Analysis       | Test Commenced on  | 18-03-2024 |  |  |
| Sampled by                   | Lab Authorized Sampler | Test Completed on  | 21-03-2024 |  |  |

| DETAILS OF SAMPLING |                      |                  |            |  |  |
|---------------------|----------------------|------------------|------------|--|--|
| Sampling Location   | East Side Boundary   | Date of Sampling | 16-03-2024 |  |  |
| Sampling Procedure  | SEAAL/CHL/SOP/7.3/02 | Humidity         | 70%        |  |  |

|            | SAMP           | LING SITE DETAILS |        |
|------------|----------------|-------------------|--------|
| Survey No. | 168, Block - 1 |                   |        |
| Village    | Karukutty      | Taluk             | Aluva  |
| District   | Ernakulam      | State             | Kerala |

| TEST RESULTS-CHEMICAL DISCIPLINE |                                      |                         |       |        |             |
|----------------------------------|--------------------------------------|-------------------------|-------|--------|-------------|
| SL NO                            | PARAMETERS                           | TEST METHOD             | UNIT  | RESULT | KSPCB LIMIT |
| 1                                | Particulate matter PM <sub>10</sub>  | IS 5182 (Part 23): 2006 | μg/m³ | 67.2   | 100 (Max)   |
| 2                                | Particulate matter PM <sub>2.5</sub> | IS 5182 (Part 24): 2019 | μg/m³ | 32.8   | 60 (Max)    |
| 3                                | Sulphur dioxide as SO <sub>2</sub>   | IS 5182 (Part 2): 2001  | μg/m³ | 5.81   | 80 (Max)    |
| 4                                | Nitrogen dioxide as NO <sub>2</sub>  | IS 5182 (Part 6): 2006  | μg/m³ | 6.74   | 80 (Max)    |

Remarks:

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

Shency Joy TM-Chemical Checked by: Standards Standards

Laiju P N Laboratory Head Authorized Signatory

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## Result of ambient air

# **Standards**



# **TEST REPORT**

| ULR N                   | o.: TC1293924000006692F |             |
|-------------------------|-------------------------|-------------|
| LRI No.: SEAAL24031749A | Date: 22-03-2024        | Page 1 of 2 |

|                         | CUSTOMER DETAILS              |
|-------------------------|-------------------------------|
|                         | M/s Planters Aggregates       |
| Customer Name & Address | Karukutty, Aluva,             |
|                         | Ernakulam District.           |
| Customer Reference      | Test Request Date: 16-03-2024 |

| SAMPLE DETAILS                      |                                  |                       |                        |  |  |
|-------------------------------------|----------------------------------|-----------------------|------------------------|--|--|
| Product Category                    | Water                            | Sample Code           | WT24030365             |  |  |
| Sample Name                         | Ground Water                     | Sample Received on    | 17-03-2024             |  |  |
| Sample Description by<br>Customer   | Bore Well Water                  | Temperature @ Receipt | 4°C                    |  |  |
| Sample Conditions at Receipt        | Fit for Analysis                 | Test Commenced on     | 18-03-2024             |  |  |
| Sample Quantity & Packing           | 2 L & 125 ml in a Plastic Bottle | Test Completed on     | 21-03-2024             |  |  |
| Information Provided by<br>Customer |                                  | Sampled by            | Lab Authorized Sampler |  |  |

| DETAILS OF SAMPLING |                      |                    |            |  |  |
|---------------------|----------------------|--------------------|------------|--|--|
| Sample Source       |                      | Date of Sampling   | 16-03-2024 |  |  |
| Sampling Procedure  | SEAAL/QAD/SOP/7.3/01 | Sample Temperature | 27°C       |  |  |

| SAMPLING SITE DETAILS |                |       |        |  |  |  |
|-----------------------|----------------|-------|--------|--|--|--|
| Survey No             | 168, Block - 1 |       |        |  |  |  |
| Village               | Karukutty      | Taluk | Aluva  |  |  |  |
| District              | Ernakulam      | State | Kerala |  |  |  |

| TEST RESULTS- CHEMICAL DISCIPLINE |                        |                         |       |           |   |
|-----------------------------------|------------------------|-------------------------|-------|-----------|---|
| Sl. No.                           | PARAMETERS             | TEST METHOD             | UNIT  | RESULT    | Requirement as per<br>Acceptable Limit of<br>IS 10500: 2012 |
| 1                                 | Colour                 | IS 3025 (Part 4): 2021  | Hazen | 1         | 5 (Max)   |
| 2                                 | Odour                  | IS 3025 (Part 5): 2018  |       | Agreeable | Agreeable   |
| 3                                 | Turbidity              | IS 3025 (Part 10): 2023 | NTU   | 0.40      | 1.0 (Max)   |
| 4                                 | pH                     | IS 3025 (Part 11): 2022 | 9     | 6.71      | 6.50-8.50   |
| 5                                 | Conductivity           | IS 3025 (Part 14): 2013 | μS/cm | 224       |   |
| 6                                 | Total Dissolved Solids | IS 3025 (Part 16): 2023 | mg/L  | 142       | 500 (Max)   |

Shency Joy TM-Chemical Checked by:



Remya B.
TM-Biological
Authorized Signatory

Laiju P N
Laboratory Head
Authorized Signatory

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# **Standards**



# TEST REPORT

| ULR No.: TC1293924000006692F |                  |             |  |  |  |
|------------------------------|------------------|-------------|--|--|--|
| LRI No.: SEAAL24031749A      | Date: 22-03-2024 | Page 2 of 2 |  |  |  |

| TEST RESULTS- CHEMICAL DISCIPLINE |                                       |  |      |                 |   |
|-----------------------------------|---------------------------------------|--|------|-----------------|---|
| Sl. No.                           | PARAMETERS                            | TEST METHOD                              | UNIT | RESULT          | Requirement as per<br>Acceptable Limit of<br>IS 10500: 2012 |
| 7                                 | Total Hardness as CaCO <sub>3</sub>   | IS 3025 (Part 21): 2009                  | mg/L | 80.4            | 200 (Max)   |
| 8                                 | Calcium as Ca                         | IS 3025 (Part 40): 1991                  | mg/L | 20.8            | 75 (Max)  |
| 9                                 | Magnesium as Mg                       | IS 3025 (Part 46): 2023                  | mg/L | 6.85            | 30 (Max)  |
| 10                                | Chloride as Cl                        | IS 3025 (Part 32): 1988                  | mg/L | 34.2            | 250 (Max)   |
| 11                                | Total Alkalinity as CaCO <sub>3</sub> | IS 3025 (Part 23): 2023                  | mg/L | 24.5            | 200 (Max)   |
| 12                                | Iron as Fe                            | IS 3025 (Part 53): 2003                  | mg/L | 0.29            | 1 (Max)   |
| 13                                | Sulphate SO <sub>4</sub>              | IS 3025 (Part 24/Sec 1): 2022            | mg/L | 2.91            | 200 (Max)   |
| 14                                | Fluoride as F                         | APHA (24th Edition) 4500-F-B,<br>D: 2023 | mg/L | 0.10            | 1 (Max)   |
| 15                                | Arsenic as As                         | IS 3025 (Part 37): 2022                  | mg/L | BDL (LOD-0.001) | 0.01 (Max)  |
| 16                                | Copper as Cu                          | IS 3025 (Part 42): 1992                  | mg/L | BDL (LOD-0.016) | 0.05 (Max)  |
| 17                                | Manganese as Mn                       | IS 3025 (Part 59): 2006                  | mg/L | BDL (LOD-0.016) | 0.1 (Max)   |
| 18                                | Cadmium as Cd                         | IS 3025 (Part 41): 2023                  | mg/L | BDL (LOD-0.003) | 0.003 (Max)   |
| 19                                | Chromium as Cr                        | IS 3025 (Part 52): 2003                  | mg/L | BDL (LOD-0.05)  | 0.05 (Max)  |
| 20                                | Zinc as Zn                            | APHA (24th Edn) 3111-B: 2023             | mg/L | BDL (LOD-0.008) | 5 (Max)   |
| 21                                | Mercury as Hg                         | IS 3025 (Part 48): 1994                  | mg/L | BDL (LOD-0.001) | 0.001 (Max)   |
| 22                                | Lead as Pb                            | IS 3025 (Part 47): 1994                  | mg/L | BDL (LOD-0.01)  | 0.01 (Max)  |
| 23                                | Aluminium as Al                       | IS 3025 (Part 55): 2003                  | mg/L | BDL (LOD-0.03)  | 0.03 (Max)  |

|         | TEST RESULTS - BIOLOGICAL DISCIPLINE |                |      |               |   |  |
|---------|--------------------------------------|----------------|------|---------------|---|--|
| Sl. No. | PARAMETERS                           | TEST METHOD    | UNIT | RESULT        | Requirement as per<br>Acceptable Limit of<br>IS 10500: 2012 |  |
| 1       | Total Coliform Bacteria              | IS 15185: 2016 |      | Absent /100ml | Absent/100 ml   |  |
| 2       | E coli                               | IS 15185: 2016 |      | Absent/100ml  | Absent/100 ml   |  |

Remarks:

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

Shency Joy TM-Chemical Checked by:



Remya B.
TM-Biological
Authorized Signatory

Laiju P N Laboratory Head Authorized Signatory

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# **Result of Quarry water**