#### **COMPLIANCE REPORT**

TO

THE CONDITIONS

**OF** 

#### **ENVIRONMENTAL CLEARANCE ORDER**

NO: 58/SEIAA/KL/7586/2012

BY

## STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA)

**FOR** 

**BUILDING STONE QUARRY** 

(MINOR MINERAL MINING) PROJECT

ΑT

**SURVEY NO. 168** 

KARUKUTTY VILLAGE & PANCHAYATH, ALWAYE, ERNAKULAM DISTRICT, KERALA.

BY

M/S PLANTERS AGGREGATES, ERNAKULAM DISTRICT, KERALA.

(January - June, 2015)

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#### **INTRODUCTION**

M/s Planters aggregates Quarry project 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 15.13.2013. Six monthly compliance reports to the conditions of the environmental clearance are to be submitted as part of compliance. The compliance report to the specific conditions and general conditions of the Environmental Clearance for the period of January 2015 – June 2015 is being submitted.

## **COMPLIANCE REPORT**

## (SPECIFIC CONDITIONS)

## **PART A**

#### **PART - A - SPECIFIC CONDITIONS**

#### **Condition I**

The 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.

#### Compliance:

The storm water from entire project area is channeled to the existing pond in the site through well maintained channels and drainage lines. The project made it sure that the storm water exit from the site is without quarry wastes. The storm water drainage and its exit from the site are fully functional at all the time. The photographs showing the rain water collection pond in the project area is attached at Plate No. 1.

#### **Condition II**

The depth of the mining should be restricted to the 30m level as agreed in the proposal.

#### Compliance:

In the conceptual phase of quarry project, the exploration of mineral is from 145 – 30m RL. Therefore the mining depth will maintain as 30 m as agreed in the proposal.

## **COMPLIANCE REPORT**

## (GENERAL CONDITIONS)

## **PART B**

#### **PART - B - GENERAL CONDITIONS**

#### **Condition I**

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

#### Compliance:

The Rain Water Harvesting (RWH) system is implemented and properly maintained in the project area. Rain water from entire land area is collected in the existing pond which is situated in the lowest level of project area through channels and drainages. Rain water is mainly used for irrigation purpose, watering of plants, wetting of roads and sprinkler system for contain dust emission. Two concrete tanks are also used for collecting rain water and its efficient utilization. The photograph showing the rain water collection pond and tank in the project area is attached at Plate No. 1.

#### **Condition II**

Environment monitoring cell as agreed under the affidavit filed by the proponent should be formed and made functional

#### Compliance:

An Environmental Monitoring Cell (EMC) was formed with Mr. Saji Vadakkekara (proprietor of Planters Aggregates) as head and made functional. Meeting of monitoring cell is arranged every month and discussed the status of the compliance of the specific and general conditions contained in the Environmental Clearance (EC) order. As part of monitoring, the sound levels, ambient air and water are monitored through a NABL accredited laboratory and the monitored results are well within the permissible limits. The results are given at annexure No. 10, 11, & 12. The details of monitoring cell are given below.

TABLE 1 ENVIRONMENTAL MONITORING CELL (EMC)

| SI. No. | Post  | Name                               |
|---------|---|------------------------------------|
| 1.      |   |                                    |
|         | Head of monitoring cell (proprietor)                    | Saji Vadakkekara                   |
| 2.      |   |                                    |
|         | Head in charge (Environmental)                          | Davis George                       |
| 3.      |   |                                    |
|         | Senior Environmental Officer                            | Reji K. Paul                       |
| 4.      |   |                                    |
|         | Asst. officer of Environment, Health and safety at site | Kamalkanth                         |
| 5.      | Environmental consultant                                | M/s Environmental Engineers &      |
|         |   | Consultants Pvt. Ltd.              |
|         |   | A1-198, Janak Puri, New Delhi      |
| 6.      | Address of Environmental Laboratory                     |                                    |
|         |   | Standards Environmental &          |
|         |   | Analytical Laboratories, KJ Tower, |
|         |   | Udyogamandal, EKM                  |

#### **Condition III**

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.

#### Compliance:

There is natural vegetation including trees, shrubs and climbers in the sides of the tarred road and open parking areas. The name and family of flora is given below in table number 2. The project is intending to plant suitable avenue trees along either side of the tarred road and open parking areas, where there is less vegetation. The photographs showing the natural vegetation is attached at Plate No. 2.

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    |
| 5.      | Ziziphus oenopolia           | Thodalli        | Rhamnaceae    | Climber |

#### □ Condition IV

The project shall incorporate devices for solar energy generation and utilization wherever possible.

#### Compliance:

As part of energy conservation, solar energy generation and utilization the project installed solar street lights near to the office and magazine area. The photograph of the solar street lights is attached at Plate No. 3

#### **Condition V**

Sprinklers shall be installed and used in the project site to contain dust emissions

#### Compliance:

To contain dust emissions, the project installed sprinklers in the sides of service road, on the top and nearby areas of crusher building and the same is using effectively. The photograph of the sprinklers is attached at Plate No. 4

#### **Condition VI**

The eco-restoration plan submitted with the proposal should be fully implemented

#### Compliance:

The project converted a sloppy land in to benches by systematically dumping the overburden. To prevent soil erosion this has covered with a *geotex* coir mat and planted grass. As part of eco - restoration, the project is intending to plant various saplings and medicinal plant on the prepared benches. The photograph of benches covered by coir mat is attached at Plate No. 5

#### **Condition VII**

Corporate social responsibility agreed upon by the proponent should be implemented

#### Compliance:

The project carried out many activities under corporate social responsibility, such as treatment support, promotion of sports and culture, aid for constructing houses and toilets, promotion of environment, education etc. The bills and receipts of the same are showing the Corporate Social Responsibility (CSR) expenditure incurred from 01/01/2015 to 30/06/2015, which is attached at Annexure No. 2.

#### **Condition VIII**

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/belongings/dumping of garbage's etc. does not happen.

#### Compliance

To prevent the falling of animals/ human/dumping of garbage's etc, barbed metal wire fencing was installed around the mining area at 5ft height. The photograph of the barbed metal wire fencing is attached at Plate No. 6.

#### **Condition IX**

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

#### Compliance:

Warning alarms installed in the project area. It is working properly prior to the blasting. The blasting time is fixed between 6.00 AM to 6:00 PM. A *danger* board is also installed which gives information about the blasting time. The photograph showing the danger area, blasting time sign board etc are provided at Plate No. 7.

#### **Condition X**

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

#### Compliance:

The project proponent has a crusher unit near to the quarry site. A well tarred road is maintaining up to crusher unit (2.5 Km) for contain dust emission that may arise during transportation of materials. The access road to the quarry is maintained under sprinkler system to control the dust emission during transportation of the materials. This access road did not tar for traveling Hitachi like machines. The photograph is showing the access road, provided at Plate No. 8.

#### **Condition XI**

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

#### Compliance:

The overburden and top soil excavated from the quarry is dumping in to two old quarries as part of reclamation. This portion will be utilized for planting various saplings. The photographs showing overburden materials are managing within the site is attached at Plate No. 5 & 9.

#### **Condition XII**

Height of benches should not exceed 5m and width should not be less than 5m.

#### Compliance:

The project is maintaining the height and width of benches of the quarry with 5m. The minerals are exploring under the supervision of qualified persons so that the project can form the benches systematically. The copy of certificates of second class manager and mines mate are attached at Annexure No 6 & 7. The photograph showing the height and width of benches is attached at Plate No. 10.

#### **Condition XIII**

Mats to reduce fly rock blast to a maximum of 15 PPV should be provided.

#### Compliance:

Mats to prevent fly rock during blasting will be arranged shortly.

#### □ Condition XIV

Mining depth should not exceed beyond 40m, unless otherwise specifies or not below the level of nearest stream bed whichever is less.

#### Compliance:

The exploration of mineral will be maintained as 30 m as agreed in the proposal. To ensure this, the project appointed second class manager and mining mate. The all activities of these qualified persons will be under the supervision and monitoring of Environment Monitoring Cell.

#### □ Condition XV

Acoustic enclosures should have been provided to reduce 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:

Acoustic enclosure is provided to reduce sound amplification. The crusher unit is encircled by green belt. The ear plugs are provided to the labours to reduce the health problems. The solid brick covering maintain the noise level as per CPCB standards. The

result of NABEL accredited laboratory n ambient sound level is attached at annexure No. 10. The photograph showing the crusher unit is attached at plate No. 27.

#### □ Condition XVI

Assurance in the form of affidavit should be given to SEIAA that eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.

#### Compliance:

Assurance in the form of affidavit was already submitted to SEIAA Kerala along with the application for Environmental Clearance. The copy of the affidavit is attached at Annexure No. 9.

#### **□Condition XVII**

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

#### Compliance:

Storm water drains are provided within the lower slopes of project site to channelize the storm water to the storm water collection pond

#### □ Condition XVIII

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

#### Compliance:

Storm water from entire project area is collected through channels and directed to the existing pond in the site. The debris/silt in the storm water may come down at the bottom of pond. The silt can collect in summer season by using excavator. The flooded 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 will prevent the passage of waste from the site to the mainstreams. The photograph showing the rain water collection pond in the project area and silt trap arrangement is attached at Plate No. 13

#### **□Condition XIX**

All other statutory clearances should have been obtained as applicable, by the project proponents from the respective competent authorities that for blasting and storage of explosives.

#### Compliance:

All statutory approvals required for the quarrying activity is obtained for the project. The copy of the approvals obtained is provided at Annexure No. 3, 4, 5 & 6

| Name of the Statutory approval | Name of the Statutory authority | Approval Number & Date |
|--------------------------------|---------------------------------|------------------------|
| "Consent to Operate"           | Kerala State Pollution Control  | File No. 964872        |
|                                | Board                           | Dated : 10/04.2015     |
| Explosive License              | Ministry of Commerce &          |                        |
|                                | Industry – Petroleum &          | E/SC/KL/22/751(E33224) |
|                                | Explosives Safety               | Dated : 29/05/2014     |
|                                |                                 |                        |
| License for quarry operations  | Karukutty Gram Panchayat        | B3.20/14-15            |
|                                |                                 | Dated:1/04/2014        |
| Lease order                    | Directorate of Mining and       | 660/2010-              |
|                                | Geology                         | 11/9439/M3/2010        |
|                                |                                 | Dated : 3/1/2011       |

#### □ Condition XX

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

#### Compliance:

Shall be complied.

#### □ Condition XXI

The authority reserved the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environment (protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.

#### Compliance:

Shall be complied.

#### □ Condition XXII

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.

#### Compliance:

Shall be complied.

#### □ Condition XXIII

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.

#### Compliance:

An advertisement in two news paper 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. 08.

#### □ Condition XXIV

A copy of the clearance letter shall be sent by the proponent to concerned Grama 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.

#### **□Condition XXV**

The proponent shall submit six monthly reports on the 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.

#### Compliance:

Shall be complied.

#### **Condition XXVII**

The conditions of the environmental clearance should be 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 specific conditions of the environmental clearance prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman

fond was installed. The photograph showing the sign board containing specific conditions is provided at Plate No. 14.

#### Ш

#### **Condition XXVII**

The proponent shall provide affidavit that all the conditions 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. 09.

PLATE 1



Rain water collection pond exist in the project site



#### Rain water collection tank

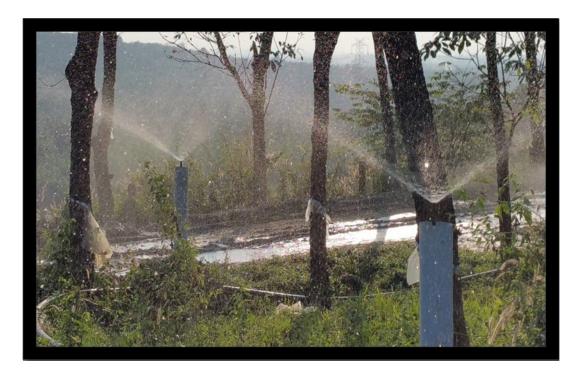
#### PLATE 2



The natural vegetation maintained along the roadside PLATE 3



# Solar street lights installed near to the magazine PLATE 4



Sprinklers Installed in the project area PLATE 5



#### Benches made by over burden and covered by coir mat

#### PLATE 6



Barbed metal wire fencing with a height of 5 meter

PLATE 7



#### Device for alarm prior to the blasting



Sign board mentioned danger and time of blasting PLATE 8



Tarred road to the crusher unit

#### PLATE 9



Over burden managed within the site PLATE 10



# Minerals explored with bench system of 5 m width and height PLATE 11



Crusher unit existing in the project site





## The drain line maintained in the project site

#### **PLATE 13**



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

PLATE 14



Metallic board described the details of EC

#### **ANNEXURE 1**



Proceedings of the State Environment Impact Assessment Authority Kerala

SEIA/ Keralo - Proposed quany project in Survey No. 168 at Karukutty Village, Karukutty Pancheyath, Alwaye Taluk, Enakulam District, Kesalı by M/s Planters Aggregates — Environmental Clearance under HA Notification 2006 accorded — Orders issued

#### Environmental Clearance

No. 58/SELAAKT/2586/2012

dated, Thirtavanarthapuram 15-13-2013

#### ORDER

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, Emakulam District, Kerala. The proposed has been appraised by the State Level Expert Application Kerala constituted by the competentarubroly, 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 2<sup>th</sup> February, 2013 AND on the basis of the supporting documents enclosed with the application viz., the Form – I. questionnaire for mining projects, pre-feasibility report, Environment Management Plant and the additional clarifications fluralised in response to the observations, the SEAC Kerala recommended privironmental clearance is the project.

It is interalia, noted that the project comes under the Category B, Activity 1(a) of Schadule of EIA Notification 2006. The proposed project is fulls within 10<sup>th</sup> 60 M and 76-725 E. The proposed project is for cuarrying of 22.88,000 TPA of building granies stone from an area of 4.8033 fecture of land. The expected life of mine will be 6 years. The proposed activity involves about 73 % of the pid area for exploring granite building stone. At the end of life of mine the reclaimed area will be suitably planted and the remaining oxid at lower velves of excavated pit willbe utilized as water stongs/ground water recharge and will be utilized for connestio/agricultural purposes. The proposed project does not involve any underground mining activities. The mining will be due by open cast seni machanised method of mining. The bench height and width proposed is 5 m. The exploitation of miners is being done from 143-30 m RL in conceptual plane. A total quantity of 14000 m³ of top soil from two pits will be utilized for green beit development from the quarry shall be dumped separately at prodeterminate place and absequantly will be utilized for green beit

2011 of Ministry of Environment and Foesss. Govt. of India, published as Gazette extraordinary No. 2074 on 3-11-2011, hereby accord eccessary Environmental Clearance for the above project as per powers vested with it under the provisions of Environment Impact Assessment Notification – 2006 and subsequent anniadments and also under the provisions made in the CoM. No. L-1101149/2011. ALI(IM) 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 Americum, which shall also form a part of this document.

1. Storm water dealinage channels and drainage line to the existing good in the site and its exist from the site shade the furnitional.

site should be made fully functional.

The depth of mining should be restricted to the 30 m level as agreed in the proposal. 2. The cepth 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 Kerals 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 proposant to the staff of the Directorate and Ministry for monitoring purposes.

The given address of correspondence of the Authorized Signatury of the project ic-Mr. Saji Vadakickaza, Proprietor, M/s Planters Aggregates, Palissery, Erhatumugham P.O., Ernskulan, Kerala – 683577; Teiqhhoo No: 0484-2439166,2439167; E-mail: planterstroup@yahoo.com

Agency with NABET accreditation for EIA is: M/s Enkay Eaviro Services, 24-B, Basemani, Dadu Marg. Gopal Bari, Jaipur-302001; Tel. No. 0141-2363996/4023996; Fax. No. 0141-3118996; E-mail: info@cokayeaviro.com

of polynomers of the property cretary, SEIAA

Mr. Saji Vadakkekara Proprietor M/s Panters Aggregates Palissery, Ezhattumughara P.O. Ernakalara, Kerala – 683577.

#### Copy to :

- The Principal Socretary, Environment Dept., Government of Kerala, Secretariat The Eiroctor, Dept. of Environment and Climate Change, Covt. o.f Kerala, Twm 24. IA-Division, Monitoring Cell, McFF, Patyavaran Bhavas, CGO Complex, Lodhi Rasi, New Teshi, 1 1000.
- Delhi- 110003 MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E&F Wing, II Block Koranengala, Bangalore- 560034 Chairman and Members of SELAA Kerala Chairman, SEAC Kerala Walksite, ungardine
- Website uploading
- Stock file

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#### Annexure

#### STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA GENERAL CONDITIONS (for mining projects)

- (i) Rain water harvesting to collect and utilize the entire water falling in land area should be provided.
- Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.
- (iii) Suitable arenue trees should be planted along either side of the terred road and open parking areas, if any, inclusive of approach road and internal roads.
- (iv) The project shall incorporate devices for solar energy generation and utilization wherever possible
- Sprinklersshall be installed and used in the project site to contain dust emissions.
- (vi) The eco-restoration plan submitted with the proposal should be fully implemented.
- (vii) Corporate Social Responsibility agreed upon by the proponent should be implemented
- (viii) Borbed mital wire fencing around the mining area shall be provided with a beight of not less than 5 ft so that falling of animals humanibelongings dumping of garbages etc. does not happen.
- (ix) Warning darms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.
- (x) Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.
- (xi) Overburden materials should be managed within the site and the old quarries, if any, should be
- (xii) Height of senches should not exceed 5 m and width should not be less than 5 m.
- (xiii) Mats to reduce fly rock blast to a maximum of 15 PPV should be provided.

reclaimed and restored

- (xiv) Mining depth should not exceed beyond 40 m, unless otherwise specified or not below the level of pearest strain bed, whichever is less
- (xv) Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow back envelop for crushers so that the noise level is kept within prescribed standards given by CPCB.
- (xvi) Assurance in the form of affidavit should be given to SEIAA that eco-restoration including the mine closure plus shall be done at the own cost of the project propounat.
- (xvii) Garland drains to be provided in the lower slopes around the core area to channelize storm water.
- (xviii) Debris' six traps to be provided to prevent entry of dust and quitry wastes entering the main streams.

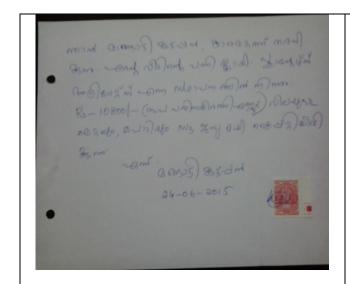
- (xix) All other statutory clearances should have been obtained, as applicable, by project proposities from the respective competent authorities including that for blasting and storage of explorives.
- (ax) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.
- (xxi) The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the conformance clearance under the provisions of the Enveronment (Pentectico) Act 1986, to ensure effective implementation of the suggested safeguard necessaries in a time bound and satisfactory manner.
- (xxii) The stipulations by Statutory Authorities under different Acts and Notifications should be compiled 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 (Issurance) Act, 1991 and Ella Notification, 2006.
- (axiii) The project proponent should advected in at least two local courspapers widely direculated in the region, one of which shall be in the versocular language informing that the project as been accorded Environmental Clearance and copies of clearance letters are available with the Department of Environment and Climste Change. Govt. of Kerale and may also be seen on the website of the Authority a www.spinaleerale.arg. The advertisement should be passage within 10 dates from the date of receipt of the Clearance letter and a coopt of the same should be forwarded to the office of this Authority & confirmation.
- (cxiv) A copy of fre clearance letter shall be sent by the proponent to concerned Grama Parchayar/ District Panchayar/Municipality/Corporation/Urbin Local Body and also to the Local NGO, if any, from whom suggestions of representations, if any, were received while processing the proposal. The gleaconce Inter-shall also be put on the website of the company to the proponent.
- (xxv) The proposent shall submit aix monthly reports on the status of compliance of the stapdated EC conditions including results of assaitored data (both in hard copies as well as by e-mail) any 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 MeEF, Govt, of India and also to the Directorate of Environment and Climate Clange, Govt. of Kerais.
- (xxvi) The conditions of Environmental Clearance should be prominently displayed in a metallic loard of 3 ft x 3 ft with green background and yellow letters of Times New Roman font of size of not less than 40.
- (xxvii) The proposest should provide affidavit that all the conditions stipulated in the EC shall be scrupploidy followed.

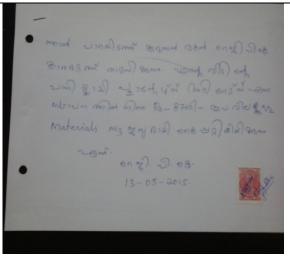
Sd/-Member Secretary, SEIAA Kerala

Page 4 of 4

#### Page 3 of 4

#### **ANNEXURE 2**



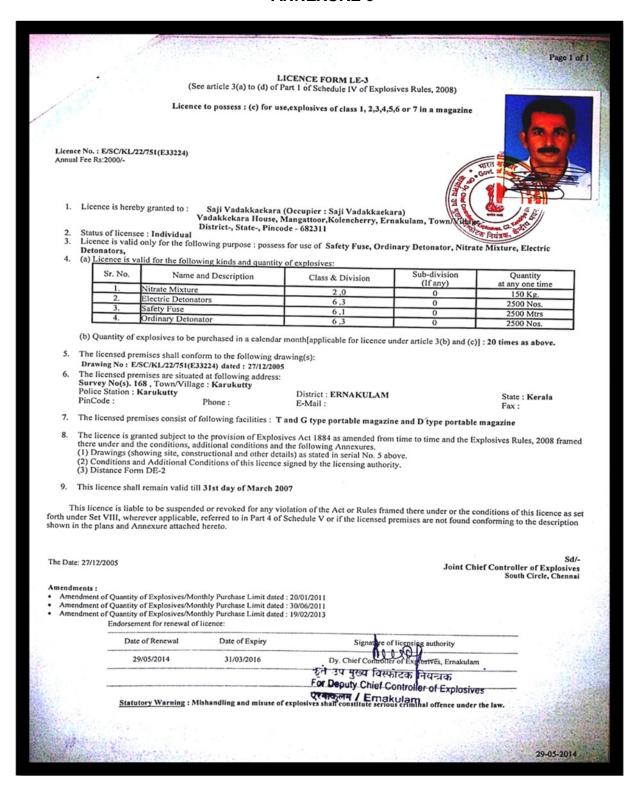




Receipts of activates under CSR

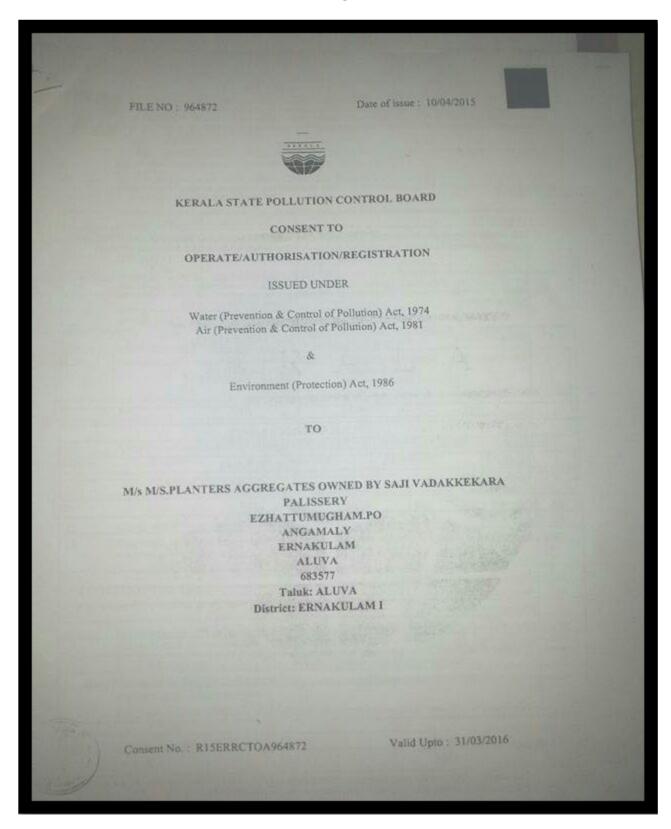
|   | MOOR   |  | OR - Clam Dis                 | 583 577<br>t , Kerali<br>ES 2005 | 7<br>a<br>FORM NO. 8 | 1      | -um                     | 1    |
|---|--|--|-------------------------------|----------------------------------|----------------------|--------|-------------------------|------|
|   | 50835494<br>3C003549   |  |                               |                                  |                      | Tele   | phone : 0484-281<br>261 | 5449 |
| To Plan   | ters Haggregates   |  | Invo                          | ice No.                          | 304                  |        |                         |      |
| Supplui   | d to - Emmancel Orp  | hannge   | Date                          |                                  |                      | 27/1   | slos                    |      |
|   | ters Magazgates<br>d to - Emmanuel Osp<br>ng No. + 588/2000 , A  | chaleon  | Purc                          | hase On                          |                      |        |                         |      |
| Ph No.  | Cell No  |  | Term<br>(If ar                | ns of Pay                        | ment :               |        |                         |      |
| SI. Commodity<br>No. Code                                     | Commodity/Item   | Rate/<br>Kg  | No.of<br>bags                 | Weight of bags                   | Otla.                | ht Kg  | Amount<br>Rs.           | Pa   |
| 1 2   | 3  | 4  | 5                             | 6                                | 7                    |        | A                       | T    |
|   | Rice   | 28   | 8                             | 75                               | 6.0                  |        | 16,800                  |      |
| Rupees (in wo   | ords)  |  |                               | 9                                | Total                |        | 16,800                  | -    |
| Truck No  | Name of Drive  | ı  |                               | 10                               | Grand Total          | (9+10) | 16,800                  | 1    |
| the goods on which<br>Act 2003 and the<br>2003 is not subject | DECLARATION (TO BE FURNISH) e particulars shown in the above Tax In the tax charged and collected are in rules made there under it is also certif it to any suspension/cancellation and it | voice are true<br>accordance<br>fied that myle<br>is valid as or | with the pour regist the date | ration and<br>of this bi         | or KVAT Act          | For    | K.S.R. MILI             | LS   |
| the goods on which<br>Act 2003 and the<br>2003 is not subject | e particulars shown in the above Tax in<br>in the tax charged and collected are in<br>rules made there under it is also certif   | voice are true<br>accordance<br>fied that myle<br>is valid as or | with the pour regist the date | ration and<br>of this bi         | or KVAT Act          | Au     | K.S.R. MILI             | ¥    |

#### **ANNEXURE 3**



License to possess and use of Explosives

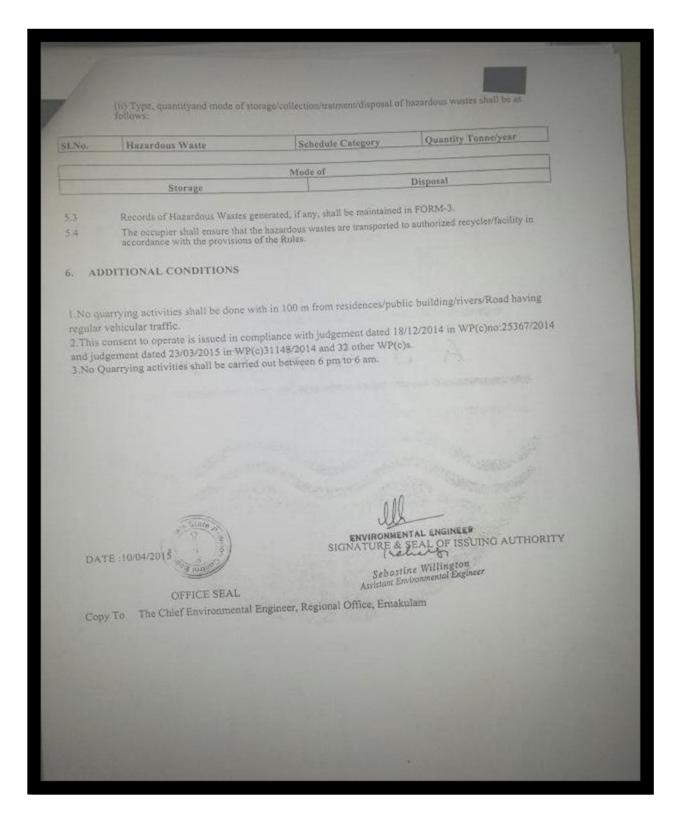
#### **ANNEXURE 4**



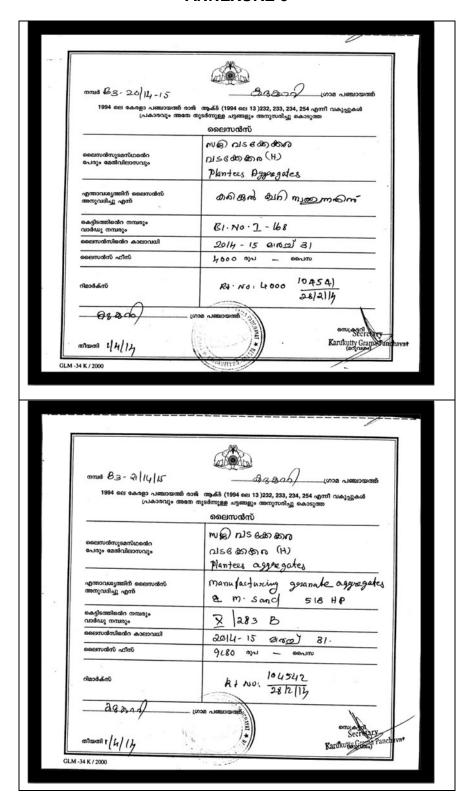
| -  | NERAL   | 31/03/2016   |
|----|---|--|
| 2  | VALIDITY  Name and Address of the establishment | M/S.PLANTERS AGGREGATES OWNED BY<br>SAII VADAKKEKARA PALISSERY<br>EZHATTUMUGHAM PO<br>ANGAMALY<br>ERNAKULAM ALUVA 683577 ALUVA |
| 3  | Communication                                   | Telephone: 0484-2439166  |
| 4  | Occupier Details                                | FSX.7- E-mail:plantersgroup@yahoo.com  SAJI VADAKKEKARA VADAKKEKARA MANGATTOOR KOLENCHERY.PO ERNAKULAM.DIST KERALA 682311 PIN  |
| 5  | Survey Number                                   | 168  |
| 6  | Village   | KARUKUTTY  |
| 7  | Taluk   | ALUVA  |
| 8  | District  | ERNAKULAM I  |
| 9  | Panchayat /Municipality/<br>Corporation & Ward  | KARUKUTTY PANCHAYATH   |
| 10 | Calegory  | RED  |
| 11 | Scale   | Small  |
| 12 | Annual fee                                      | RS.6560/-  |
|    | Fee remitted                                    | Rs.22960/-   |
| 13 | Capital Investment(Rs in Lakhs)                 | 46.0   |
| 14 | Water Consumption                               | 200 t/day  |
| 15 | Effluent Generation                             | NA   |
| 16 | Mode of Disposal of Treated Effluent            | NA.  |
| 17 | Effluent Treatment Details                      | NA NA  |
| 18 | RAW MATERIAL RUBBLES @500 Metric Tonnes         | BUILDING STONE @500 Metric Tonnes  |

| 2        | For ren<br>the pres<br>Manage<br>late fee | ewal of the conse<br>cribed form shall<br>ment & Monitori<br>as applicable  | drawn earlier and so<br>of in case of continu<br>be submitted to the<br>ong System on or be        | ubject to<br>uance of<br>through<br>fore Lat  | condition<br>discharge<br>the web p | no.2.1, shall be ortal of the Botton will be acc  | e vali         | d upto : 31<br>lustry, appl<br>or Online C   | 03/2016<br>leation in<br>onsens<br>a fine / |
|----------|---|---|--|---|-------------------------------------|---|----------------|--|---|
| 3        | The apr                                   | licant shall come   | ly with the instruction of air, water, land  |   |                                     |   | n tim          | e to time re   | garding                                     |
| A        | No char<br>Board                          | nge or alteration -   | f the industrial plan  |   | ra pontate                          |   |                |  |   |
| .5       | If opera                                  |   | th bacters it  |   |                                     |   |                |  |   |
| .6       | In case                                   | of process disturb  | sance / failure of pol<br>oc restarted until the   | llution co  | ntrol equ<br>measures               | ipments, the rea  | spect          | ive units showe the desi   | all be<br>red                               |
| 2.7      | accides                                   | ment amore autores  | orehended discharge<br>een act or event, it s<br>all make all possible                             | thall be it   | mmerziate                           | W infimated to  | The P          | Captri and the   | P   |
| 2.8      | Arrang                                    | ements for collect  | ion, segregation, sto<br>f and maintained pro  | trace has   |                                     |   |                |  |   |
| 2.9      | E-wast<br>submit                          | e shall be dispose<br>ted to the Board o  | d in an environment<br>n or before 3151 De   | ally soun   | d manner                            | . The following   | deta           | ils shall be   |   |
| SLNO.    | Partie                                    | Particulars of e-waste disposed in the previous year Quantity of e-waste proposed to be disposed in the curr  |  | to be   | Mode of disposal                    |   | sal            |  |   |
| 1        | NA  |   | NA   | - 17  | NA.                                 |   | NA             |  |   |
|          |   |   |  |   |                                     | 110000000000  | -              | 1000000  |   |
| 2.10     | . Perio                                   | II DESTRUCTION OF THE PARTY OF | tailed below shall be  | CONTRACTOR OF THE PARTY OF THE |                                     | CONTRACTOR OF THE PARTY OF THE | ict O          | REGISTRATION OF THE PARTY OF TH |   |
| Statutes |   | Details   | Mode of collect  | tion  | Pe                                  | eriodicity  |                | Form No.   |   |
|          |   |   |  | An  | alysis                              | Submissio   | n              | -4400  |   |
| NA       |   | NA.   | NA   | N.  | A.                                  | NA  |                | NA   | 2   |
|          | Renew<br>possib                           | vable sources of er<br>ele.   | vation measures sha<br>ergy such as solar e<br>ontrol of Pollutio                                  | nergy shi   | all be utili                        |   | and            | heating wh   | erever                                      |
| 3.1      | treatm<br>the op                          | ent units having a<br>eration of the indu   | trade effluent from the<br>dequate capacity as l<br>stry. Additional faci<br>) of the Water Act sl | listed und<br>lities req  | ler item 1.<br>uired, if a          | 17 shall be fun<br>ny, to achieve t   | ction          | al at all tim  | es during                                   |
| 3.2      | and di                                    | rawing of efficient   |  |   |                                     |   |                | 233  | ection                                      |
| 3.3      | The c                                     | haracteristics of ef  | Quent after treatmen   | t shall co  | nform to                            | the following to  | lerar          | ice limits:  |   |
| SLNO.    | C   | haracteristics  | Unit   | Unit  |                                     |   | olerance Limit |  |   |
| 1        | N   | A   | NA   |   |                                     | NA  |                |  |   |
|          |   |   |  |   |                                     |   |                |  |   |

| 3.4                            | Water meter shall be fixed to a<br>differential rates is claimed for<br>effluent is easily biodegradable<br>biodegradable and/or toxic.         | e and/or not toxic and pro   | cess where the e                          | filtient is not easily           |  |
|--------------------------------|---|--|---|----------------------------------|--|
| 3.5.                           | Suitable facility shall be provi  | ded for safe storage and   | isposal of the slu                        | idge generated from the ETP_M    |  |
| 3.6                            | Adequate sanitation facilities  | shall be provided for the  | employees.                                |                                  |  |
|                                | DITIONS AS PER ir(Prevention and Control of   |  | led and operated                          | whenever emission is made:       |  |
| SLNO                           | Source of Emission  | Stack Height   |   | Control Equipment                |  |
|                                | Ource of Emission   | Above Ground<br>Level  | Above Roof<br>Level                       | Control organization             |  |
|                                |   | 200000000000000000000000000000000000000  | 1   |                                  |  |
| Capacity                       | Emission Rate   | :[Nm3/hr   |   | Unit                             |  |
| 4.2                            | Emission characteristics shall  | not exceed the following   |   |                                  |  |
| SLNO                           | Parameter   |  | Limiting Standards mg/Nm3                 |                                  |  |
| 1                              | NA  |  | NA  |                                  |  |
| 4.3<br>4.4                     | All stacks shall have adequate<br>monitoring of emissions.<br>Water sprinklers shall be prov<br>(PM 10 & PM 2 5) at the bour<br>adjoining area. | rided to suppress spreadi  | ng of dust outside                        | the premises. Particulate matter |  |
| 4,5                            | Raw materials shall be transp<br>during transportation.   | orted with proper cover o  | r after wetting to                        | prevent spreading of dust        |  |
| 4.6                            | There shall be no fugitive em   |  |   |                                  |  |
| 4.7                            | The sound level measured I in applicable to the adjoining are   | 4.   |   |                                  |  |
| 4.8                            | All operations likely to produ  | ce dust or noise shall be  | carried out within                        | appropriate enclosure.           |  |
| 4.9                            | Record of type, quantity and a<br>shall be submitted to the Boar  | ourpose of consumption<br>d along with emission n  | of fuel, if any, shi<br>onitoring reports | all be maintained and abstract   |  |
|                                | DITIONS AS PER<br>dous Waste (Management,   | Handling and Trans   | oundary Mov                               | ement) Rules 2008.               |  |
| . CONI                         |   | Hazardous wastes generated, if any, shall be handled as per the Hazardous Waste Management, Handling and Transboundary Movement Rules, 2008. |   |                                  |  |
| Hazar                          | Hazardous wastes generated.   | if any, shall be handled<br>Movement Rules, 2008.  | s per me rinemo                           |                                  |  |
| Hazar<br>5.1                   | Hazardous wastes generated.   | Movement Rules, 2008.  | s per me ciazaro                          |                                  |  |
| Hazar<br>5.1<br>5.2            | Hazardous wastes generated,<br>Handling and Transboundary   | Movement Rules, 2008.  | ortation                                  |                                  |  |
| Hazar 5.1 Collection Reception | Hazardous wastes generated,<br>Handling and Transboundary   | Movement Rules, 2008.  | ortation                                  |                                  |  |



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



**License from Gram Panchayat** 

PROCEEDINGS OF THE DIRECTOR OF MINING AND GEOLOGY

Mines and Minerals - Minor Winarais - Granite Building Stone-Quarrying lease

to Shri, Saji Vadakkekara, Vadakkekara House, Mangattoor, Kolenchery P.O., Emakulam-682 311 - sanction coders issued

- Ref : 1. Application dated 27/9/2010 from Shri. Saji Vadakkekara, Vadakkekara House, Mangattoor, Kolenchery P.O., Ernakulam-682 311
  - Letter No. DOE/4555/E2/2010 dated 29/11/2010 from the Geologist, District Office, Ernakulam

3. Kerala Minor Mineral Concession Rules, 1967

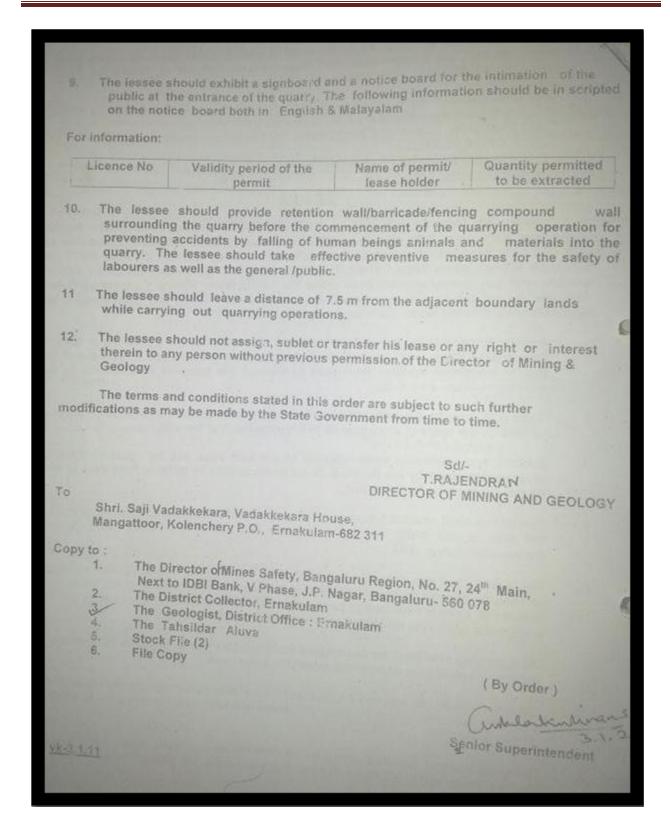
No. 660/2010-11/9439/M3/2010

Dated, Thiruvananthapuram, 3/1/2011

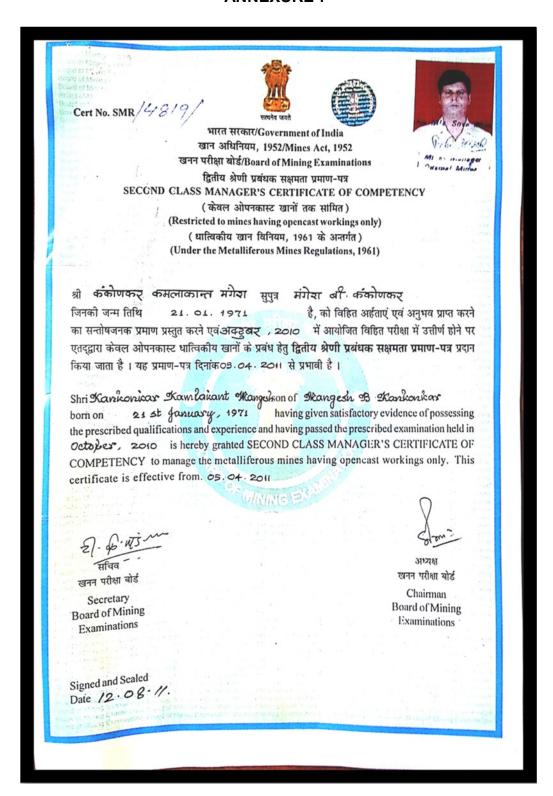
#### ORDER

A quarrying lease is Granted to Shri. Saji Vadakkekara, Vadakkekara House, Mangattoor, Kolenchery P.O., Ernakulam-682 311 to quarry Granite Building Stone over an area of 5.8736 hectares of patta land comprised in Survey No. 168 of Block No. 1 of Karukutty Village, Aluva Taluk, Ernakulam District for 10 (Ten.) years from the date of execution of the quarrying lease deed under the Kerala Minor Mineral Concession Rules, 1967 and as per the Survey map issued by the Tahsildar Aluva and submitted by the applicant subject to the under mentioned conditions.

- Royalty is payable to Government as per Rule 29(1)(c) of the Kerala Minor Mineral Concession Rules, 1967 in respect of minor mineral quarried and moved out of the quarry subject to revision from time to time on the basis of amendments to the schedule I of the said Rules.
- Dead rent is realisable under 29(1)(d) of the said rules subject to revision from time to time on the basis of amendments to the schedule II of the said rules.
- Surface rent realisable under 29(1)(e) of the said rules will be equal to the land revenue assessed by the Revenue Department subject to revision from time to time
- The lessee shall execute a quarrying lease deed within a period of three months from the date of this order in form 'H' as per Rule 32 of the Kerala Minor Mineral Concession Rules, 1967.
- 5. The lessee shall also deposit an amount of Rs. 1000/- (Rupees One Thousand only) as security deposit for the observance of the terms and conditions of the lesse commence quarrying operation only after the deed is executed.
- The quarrying area shall be demarcated and boundary stones fixed at the leasee's expenses before execution of the quarrying lease deed.
- The leasee shall not win and dispose any type of dimension and decorative stones
  from the area over which the quarrying lease has been sanctioned on the strength
- The production of Granite Building Stone from the area covered under this grant shall be restricted to 50, 000 M.T( Fifty thousand only) per year during the tenure



Lease order from Directrotre of Mining and Geology

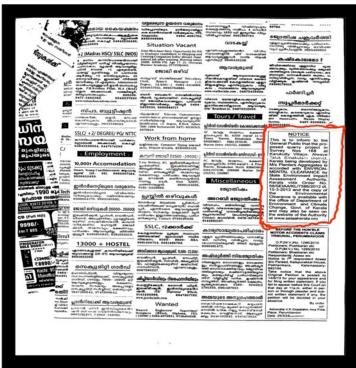


Certificate of second class manager

|   | SHADOWS TO THE PROPERTY OF THE |
|---|--|
| Cert No. MR/SZ/599 भारत सरकार/Government of खान अधिनियम, 1952/Mines A खनन परीक्षा बोर्ड/Board of Mining खनन मेट सक्षमता प्रमाण-MINING MATE'S CERTIFICATE OI (केवल ओपेनकास्ट खानों तक (Restricted to mines having opencas (धात्विकीय खान विनियम, 1961 (Under the Metalliferous Mines Research  | Act, 1952 Examinations पत्र F COMPETENCY सीमित) st workings only) के अन्तर्गत)   |
| श्री<br>जिनकी जन्म तिथि<br>आयु स्वस्थता, सदाचार, साक्षरता और धात्विकीय खानों में काम करने<br>प्रस्तुत करने एवं दिनांक को  | केन्द्र पर आयोजित  |
| विहित परीक्षा में उत्तीर्ण होने पर एतद्द्वारा केवल ओपेनकास्ट ख  | नि तक सामत मट सक्षमता प्रमाण-पत्र  |
| प्रदान किया जाता है।  |  |
| Shri DAVIS GEORGE son of GEORGE born on 31st MAY, 1969 (SIXTY NINE) having give medical fitness, good character, literacy and prescribed mines and having passed the prescribed examination held  | en satisfactory evidence of his age. experience of working in metalliferous lat GVTC, C.N.HALLI, TUMKUR MINING MATE'S CERTIFICATE OF   |
| Shri DAVIS GEORGE son of GE born on 31st MAY, 1969 (SIXTY NINE) having give medical fitness, good character, literacy and prescribed mines and having passed the prescribed examination held centre on 23.03.2015 is herby granted COMPETENCY restricted to mines having open cast working open cast workin | en satisfactory evidence of his age. experience of working in metalliferous lat GVTC, C.N.HALLI, TUMKUR MINING MATE'S CERTIFICATE OF   |
| Shri DAVIS GEORGE son of GR born on 31st MAY, 1969 (SIXTY NINE) having give medical fitness, good character, literacy and prescribed mines and having passed the prescribed examination held centre on 23.03.2015 is herby granted COMPETENCY restricted to mines having opencast work  | en satisfactory evidence of his age. experience of working in metalliferous lat GVTC, C.N.HALLI, TUMKUR MINING MATE'S CERTIFICATE OF   |

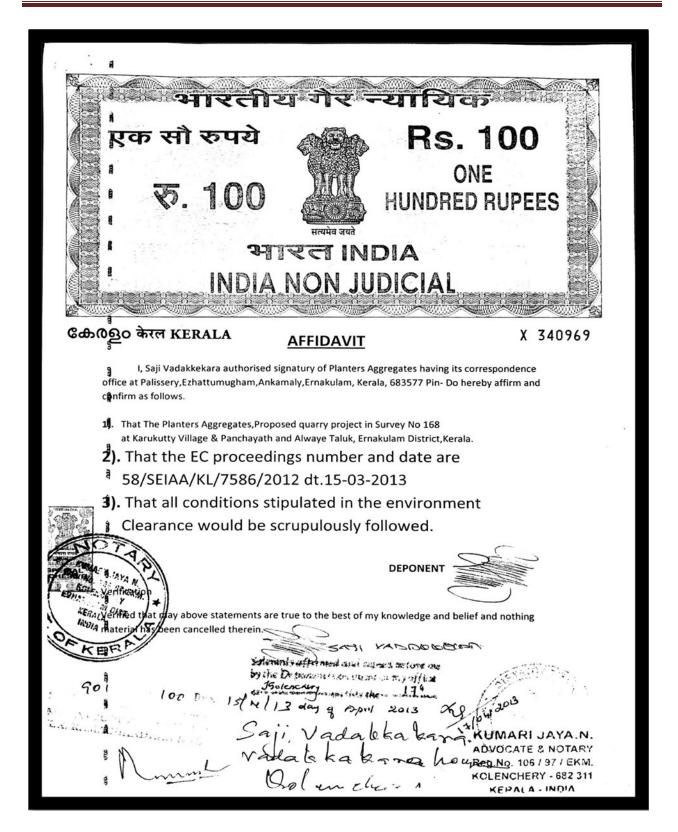
**Certificate of Mining mate** 



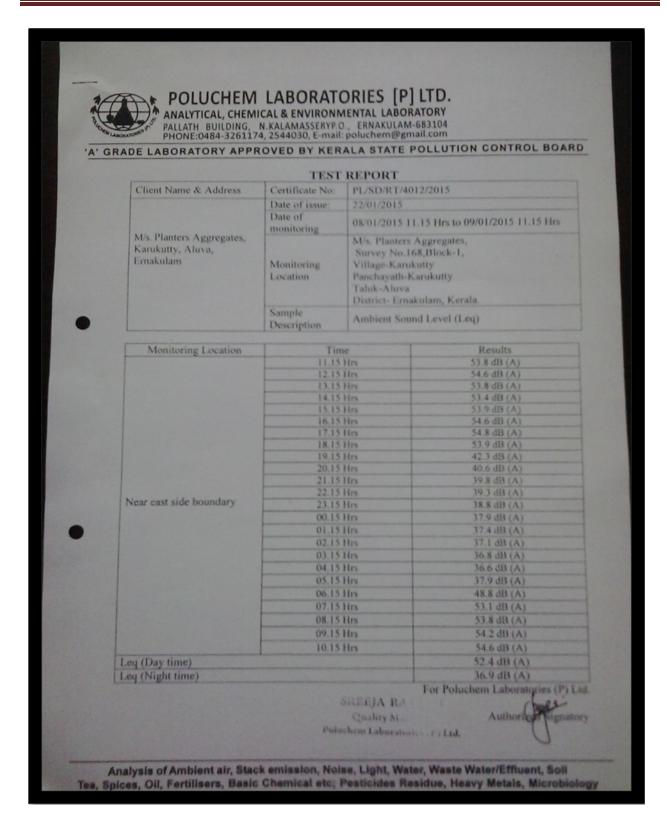


Advertisement in two news paper

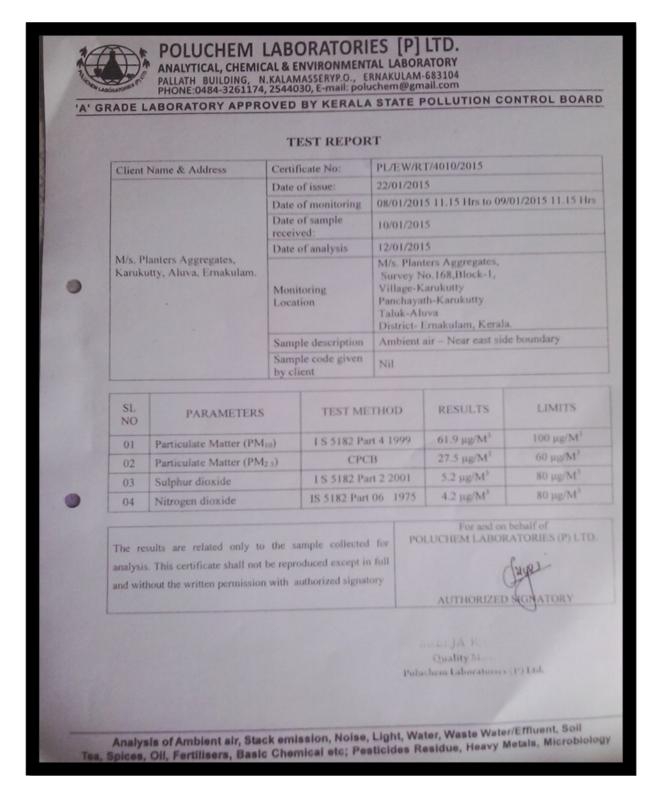
ANNEXURE 10



**Affidavit** 

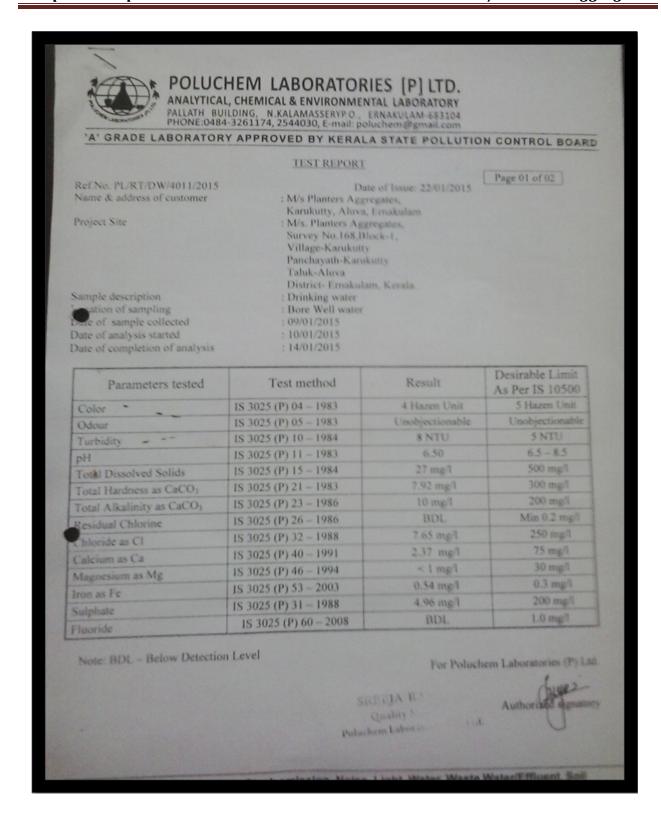


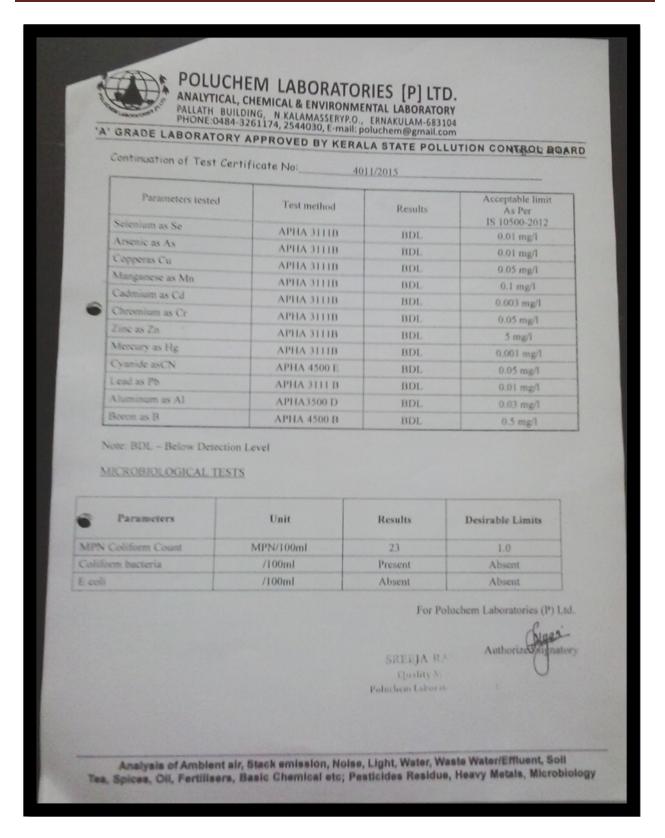
# Result of ambient sound level ANNEXURE 12



Result of ambient air

ANNEXURE 13





Result of drinking water