

**COMPLIANCE REPORT
TO
THE CONDITIONS
OF

ENVIRONMENTAL CLEARANCE ORDER
NO: 946/SEIAA/EC1/4152/2015
DT. 16 – 08 – 2017
BY
STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA)

FOR
PROPOSED QUARRY PROJECT

AT

SURVEY NO. 59/2. KARIAVATTOM VILLAGE, VETTATHOOR
PANCHAYAT, PERINTHALMANNA TALUK, MALAPPURAM DISTRICT,
KERALA

BY
POABSON GRANITE PRODUCTS PRIVATE LIMITED
KUTTOOR P.O., THIRUVALLA PATHANAMTHITTA - 689016

(October, 2019 – March, 2020)**

INTRODUCTION

M/s Poabson Granite Products Pvt. Ltd. is a stone quarry situated at Survey No. 59/2, Kariavattom Village Vettathoor Panchayat – Perinthalmanna Taluk, Malappuram District, Kerala. The quarry project has accorded with the environmental clearance by state Environmental Impact Assessment Authority on 16-08-2017. 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 and general conditions of the environmental clearance for the period of October, 2019 – March, 2020 is being submitted.

PART A – SPECIFIC CONDITIONS

➤ Condition 1

If any plant species endemic to Western Ghats are noticed in the area, they shall be properly protected in situ or by transplanting to an appropriate location inside the lease area.

✓ Compliance

Most of the land area covering under the present EC are already under mining activities. Thus the loss of endemic plant species are very negligible regarding the present project. The Company properly protecting the plant species that are endemic to Western Ghats in situ or by transplanting to an appropriate location. Company also plan to develop a plant Nursery for the native plants including the endemic species for plantation purposes.

PART B – GENERAL CONDITIONS

➤ Condition 1

Rainwater harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR unless otherwise specified.

✓ Compliance

Regarding the current mining project, a mined out pit is using as rainwater storage system having the capacity of 12000000 liters. Photograph showing the same is enclosed as Annexure 1. Details of the rainwater harvesting system are as follows.

| Sl. No. | Type | Length (m) | Width (m) | Height (m) | Capacity (L) |
|---------|--------------------|---------------|--------------|---------------|-----------------|
| 1 | Excavated mine pit | 50 | 40 | 6 | 12000000 |

➤ Condition 2

Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.

✓ Compliance

An environmental monitoring cell was formed with Mr. K.A Abraham (Managing Director of the Company) as head. Meeting of the monitoring cell has been arranging monthly since the starting of the project and discussing the status of the compliance of the specific and general conditions stated in the Environmental clearance order. The details of the monitoring cell members are given below.

| Sl. No. | Post | Name |
|---------|---|------------------------|
| 1 | Head of the monitoring cell (Managing Director of the Company) | Mr. K.A Abraham |
| 2 | Head in charge (Environment) | Mr. Girish Menon |
| 3 | Senior Environmental Officer | Dr. Rinoy Varghese |
| 4 | Environmental Officer | Mr. Navin Xavier |

| | | |
|---|---|---|
| 5 | Name of the environmental officer in charge at site | Mr. Raghu |
| 6 | Name of the officer Environment, Health and safety at site. | Mr. Mathew |
| 7 | Name of the environmental consultant | M/s Environmental Engineers & Consultants Pvt. Ltd. |
| 8 | Address of Environmental laboratory | M/s Poluchem Laboratory Pvt. Ltd. |

➤ **Condition 3**

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

✓ **Compliance**

Open parking areas and sides of the tarred roads are almost covered by natural vegetation and the vacant spaces including the sides of approach road and other places near to the project area has planted with tree saplings. The photographs showing the same are attached as Annexure No.2.

➤ **Condition 4**

Maximum possible solar energy generation and utilization shall done at the own cost of the project proponent.

✓ **Compliance**

Regarding the present project, the Company has incorporated solar devices for energy generation and utilization. A total of ten solar lights has erected along the road sides, magazine area, office area, crusher units etc. Solar heaters has provided in the canteen and is used for water boiling. Photographs showing solar energy devices are given in Annexure 3.

➤ **Condition 5**

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

✓ **Compliance**

The road system of the project site, approach road and other connected roads has been watering daily by sprinkler system installed in tipper lorry since the starting of the project. For the suppression of the dust generated during Crushing & Screening operation, Company has installed fixed water sprinkling systems in the Crushing units. Dust emission during drilling process are reducing by wet sack. Photographs showing sprinkler system installed in the crusher unit and tipper lorry is enclosed as Annexure 4.

➤ **Condition 6**

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

✓ **Compliance**

Subsequent to the closing of the mine, ten percent of the excavated pit area will be retained as water storage area. It is proposes to develop a green belt in the remaining area after reclaimed with stacked dumping and overburden. As part of the same, we have stored the top soil and overburden in a prefixed area and started planting. Eco-restoration including the mine closure plan will be perform at Company own cost.

➤ **Condition 7**

At least 10 percent out of the total excavated pit area should be retained as water storage area and the remaining area should be reclaimed with stacked dumping and overburden and planted with indigenous plant species that are eco-friendly, if no other specific condition on reclamation of pit is stipulated in the E.C.

✓ **Compliance**

The project team will retain ten percent of the excavated pit area as water storage area following to the closure of the mine. It is proposes to develop a green belt in the remaining area with indigenous plant species after reclaimed with stacked dumping and overburden. Grass and Shrub species with strong root system will plant in the areas prone to erosion especially at the foot of the hill.

➤ **Condition 8**

Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented.

✓ **Compliance**

As part of the Corporate Social Responsibility, the amount proposed by the company has been spending for various social activities. The Major CSR activities includes Public road maintenance, materials supply for construction works, marriage support, donation to socio cultural activities, medical aid, education aid etc.

➤ **Condition 9**

The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mining. All the boundary indicators (boards, stores, markings, etc.) shall be protected at all times and shall be conspicuous.

✓ **Compliance**

Barbed metal wire fencing has installed around the mining area with a height of 4 ft to prevent falling of animals/human/belongings/dumping of garbage's etc. All the boundary indicators (boards, stores, markings, etc.) are protecting. The photograph showing the same is attached as Annexure No.5

➤ **Condition 10**

Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulation of Explosive Department.

✓ **Compliance**

Warning alarm has installed in the project area and maintaining properly. The blasting time has fixed and is between 1.0pm and 2.0pm. A danger board indicating blasting time has also installed in the project site.

➤ **Condition 11**

Control measures on noise and vibration prescribed by KSPCB should be implemented.

✓ **Compliance**

Noise pollution

Mitigation measures Implemented

The major noise generating source from the mining activity is working machinery, drilling, blasting and plying of vehicles. The following control measures are undertaken to bring down the noise levels:-

- **Proper maintenance of machinery, equipment and improvement of design of machines.**
- **Personal protective devices i.e., earmuffs, ear plugs etc. are provided to workers working in high noise areas.**
- **Maintain a wide green belt of dense foliage between mine areas and residential colonies.**
- **The mining area is working only during day times.**
- **Noise quality is checking periodically. The sound levels are monitored through an NABL accredited laboratory during the quarry in operation and the monitored results are well within the permissible limits.**

Blast vibrations and control measures

- ❖ **Controlled blasting technique is adopted in this project in order to reduce blast vibrations.**
- ❖ **Non Electric Detonators are using for blasting activities.**
- ❖ **The maximum charge per delay is not more than 10kg to limit the PPV values to 10mm/sec.**

- ❖ **Optimum delay sequence and stem to column ratio is maintaining to minimize the ground vibration intensity.**

➤ **Condition 12**

Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.

- ✓ **Compliance**

Quarrying activities are carrying out only during day time.

➤ **Condition 13**

Blasting should be in a controlled manner as specified by the regulations of Explosive department or any other concerned agency.

- ✓ **Compliance**

Blasting

- ❖ **Non electric Detonators (NONEL) are using for blasting**
- ❖ **The controlled blasting is proposed by adopting all the safety measures as per “MMR 1961” and with the permission of DGMS.**
- ❖ **Blasting is carried out for the fragmentation of the granite within the project area. Multiple blast holes of 1.0 to 1.5 m depth has drilled with the help of 32mm drill rod, Jack Hammer and air compressor of 100 cm capacity.**
- ❖ **It is estimated about 250g of explosives per hole is required. About 30-50 holes per blast are proposed. Therefore the requirement of explosive will be about 10kg/ blast.**

Blasting safeguard

- ❖ **Blasting in the open cast is done only during day time at designated hours.**
- ❖ **Only competent blasters are appointed to handle explosives.**
- ❖ **Explosives are stored in approved and licensed magazine as per explosive Act/ Rules.**
- ❖ **Explosives are brought from magazine to blasting site in licensed explosive van under the care of blaster.**

- ❖ Sufficient warning signals are given before blasting the holes.
- ❖ Guards are posted on all roads and paths at least 250 m distance to stop entrance to the danger zone during the blasting hour.
- ❖ Controlled blasting is practiced to control vibrations and flying fragments.
- ❖ Optimum charge is used, while blasting near office complex/ infrastructure site.
- ❖ Maximum charge per delay is always being less than 10kg to limit the PPV levels within the DGMS standards of 15 mm/sec.

➤ **Condition 14**

A licensed person should supervise/ control the blasting operations.

✓ **Compliance**

Licensed persons are supervising/controlling the blasting operations.

Certificate of the licensed person is attached as Annexure 6.

➤ **Condition 15**

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

✓ **Compliance**

Access road to the quarry has tarred and maintaining well to contain dust emissions that may arise during transportation of materials. The photographs showing the same is given in Annexure 7.

➤ **Condition 16**

Overburden materials should be managed within the site and used for reclamation of mine pit as per mine closure plan/ specific condition.

✓ **Compliance**

The excavated top soil is storing in a prefixed location for the reclamation of mine pit as per mine closure plan/specific condition. Overburden/topsoil dump has properly protected by applying geotextiles, plantation, making trenches/footwalls etc. Photograph showing the Overburden/topsoil dump is attached as Annexure 8.

➤ **Condition 17**

Height of the benches should not exceed 5m, and width should not be less than 5m, if there is no mention in the mining plan/ specific condition.

✓ **Compliance**

Mining operation is carrying out in the form of benches. The proposed height and width of the benches are maintaining. The photograph showing the bench type mining is enclosed as Annexure 9.

➤ **Condition 18**

Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.

✓ **Compliance**

Several safety measures are practicing to prevent fly rocks cross the lease area. Blasting during unfavorable weather conditions has avoided. Maintain optimum delay sequence and stem to column ratio to minimize the fly rock distance. Mats to prevent fly rock during blasting are also provided.

➤ **Condition 19**

Maximum depth of mining from general ground level at site shall not exceed 10 m.

✓ **Compliance**

Mining depth will not exceed beyond 10m from general ground level.

➤ **Condition 20**

No mining operation should be carried out at places having a slope greater than 45°.

✓ **Compliance**

Mining operations are not carrying out at regions having a slope greater than 45°.

➤ **Condition 21**

Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers,

so that the noise level is kept within prescribed standards given by CPCB/KSPCB.

✓ **Compliance**

The entire project area has covered by thick green belt and this will reduce sound amplifications produced during mining activities. The noise level are limiting within the prescribed standards given by CPCB/KSPCB.

➤ **Condition 22**

The workers on the site should be provided with the required protective equipment such as ear muffs, helmets, etc.

✓ **Compliance**

Workers are provided with personal protective devices such as earmuffs, ear plugs, helmet etc.

➤ **Condition 23**

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

✓ **Compliance**

From the entire project area, storm water is channelizing in to an excavated pit and stored the storm water in it. During this storage all the debris/slit in the storm water will be sedimented in to the bottom of the pit. Overflow from the storm water pit are opens to drainage systems with silt traps. Photographs showing the same is attached as Annexure 10.

➤ **Condition 24**

The transportation of minerals should be done in covered trucks to contain dust emissions.

✓ **Compliance**

After loading, trucks are covered with tarpaulin sheets to control dust emissions during transportation. Moreover, trucks are not overloading and the loads are maintained to the body level.

➤ **Condition 25**

The proponent should plant at least 5 times of the loss that has been occurred while clearing the land for the project.

✓ **Compliance**

Most of the land area covering under the present EC are already under mining activities. Thus the loss of vegetation are very negligible regarding the present project. We are planting tree saplings 5 times of the loss that has been occurred while clearing the land for the project.

➤ **Condition 26**

Disposal of spend oil from diesel engines should be as specified under relevant rules/regulations.

✓ **Compliance**

Disposal of spent oil from diesel engines are carrying out under relevant rules/regulations.

➤ **Condition 27**

Explosive should be stored in magazines in isolated place specified and approved by the Explosive Department.

✓ **Compliance**

Explosives are storing in magazines built in an isolated place specified and approved by the Explosives Department. Photograph showing the same is attached as Annexure 11.

➤ **Condition 28**

A minimum distance of 100 m from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided.

✓ **Compliance**

Distance of 100m from the boundary of the quarry to the nearest dwelling unit or other structures has provided.

➤ **Condition 29**

100 m buffer distance should be maintained from forest boundaries.

✓ **Compliance**

Distance criteria as per SEIAA from the boundary of the quarry to the forest are provided.

➤ **Condition 30**

Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating mining activity.

✓ **Compliance**

Consent from Kerala State Pollution Control Board under Water and Air Act(s) has obtained. Consent Order from Kerala State Pollution Control Board is attached as Annexure 12.

➤ **Condition 31**

All other statutory clearances should be obtained as applicable by project proponents from the respective competent authorities including that blasting and storage of explosives.

✓ **Compliance**

All other statutory approvals required for the quarrying activity has obtained for the project. The details regarding the same along with the copy of the statutory approvals are enclosed as Annexure 8 and 9. Details of statutory approvals are given below.

| Sl. No. | Annexure | Statutory approvals |
|---------|----------|---|
| 1 | 13 | License from Panchayat |
| 2 | 14 | License to possess: (c) for use, explosives of class 1, 2, 3, 4, 5, 6 or 7. |

➤ **Condition 32**

In the case of any change(s) in the scope of the project, extent quantity, process of mining technology involved or in any way affecting the environmental parameters/impacts are assessed, based on which only the E.C. is issued, the

project would require a fresh appraisal by this Authority for which the proponent shall apply and get the approval of this authority.

✓ **Compliance**

We are agreed

➤ **Condition 33**

The Authority reserves the right to add additional safeguard measures subsequently if found necessary, and to take action including revoking of the environmental clearance under the provisions of the Environmental (Protection) Act, 1986 to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.

✓ **Compliance**

We are agreed

➤ **Condition 34**

The stipulation by the statutory authorities under different acts and notifications should be complied with including the 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**

Would be complied

➤ **Condition 35**

The project Proponent should advertise in at least two local newspapers widely circulated in the region one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Environmental Impact Assessment Authority (SEIAA) office and may also be seen on the website of the Authority at www.seiaa.kerala.org. The advertisement should be made within 10 days from the date of receipt of the clearance letter and the copy of the same signed in all pages should be forwarded to the office of the Authority as confirmation.

✓ Compliance

Regarding the accordance of environmental clearance to the quarrying activity has advertised in two local newspapers and the copy of the same was submitted to SEIAA Kerala. The copies of the advertisements are provided at Annexure 15 & 16. Details of the newspaper advertisements are given below.

| Sl. No. | Annexure | Name of the Newspaper and edition | Dated |
|---------|----------|-----------------------------------|------------|
| 1 | 15 | New Indian Express | 27/08/2017 |
| 2 | 16 | Mathrubhumi | 27/08/2017 |

➤ Condition 36

A copy of the clearance letter shall be send 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 Environmental Clearance shall also be put on the website of the company by the proponent.

✓ Compliance

A copy of the environmental clearance order was submitted to the Panchayat office. The acknowledgement received is provided at Annexure 17. There is no suggestion/representation received so far from anybody. The environmental clearance order is uploaded in the website of the company and can be seen in the website www.msand.in

➤ Condition 37

The proponent shall submit half yearly reports on the status of compliance of the stipulated E.C. conditions including results of monitored data (both in hard copies as well as by e- mail) and upload the status of compliance of the stipulated E.C. conditions, including result of monitored data on website and

shall update the same periodically. It shall simultaneously be send to the respective Regional office, of MOEF, Govt. of India and also to the State Environmental Impact Assessment Authority (SEIAA) office.

✓ **Compliance**

Fifth compliance report is being submitted to SEIAA, Department of Environment and Climate change, Govt. of Kerala and Regional Office of MoEF, Govt. of India both in hard copy as well as soft copy (CD).

➤ **Condition 38**

The details of environmental clearance should be prominently displayed in a metallic board of 3ft x 3ft with green background and yellow letters of Times New Roman font of size of not less than 40. Sign board with extent of lease area and boundaries shall be depicted at the entrance of the quarry visible to the public.

✓ **Compliance**

Details 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 has installed.

➤ **Condition 39**

The proponent should provide notarized affidavit (indicating the number and date of environmental clearance proceedings) that all the conditions stipulated in the E.C. shall be scrupulously followed.

✓ **Compliance**

An affidavit stating that all the conditions stipulated in the Environmental clearance will be scrupulously followed has submitted to Department of Environment and climate change and the copy of the same is attached at Annexure 18.

➤ **Condition 40**

No change in mining technology and scope of work should be made without prior approval of the SEIAA, No further expansion or modifications in the mines shall be carried out without prior approval of the SEIAA, as applicable.

✓ **Compliance**

We will not make any change in mining technology and scope of work without prior approval of the SEIAA and further expansion or modifications in the mines will not be carried out without prior approval of the SEIAA.

➤ **Condition 41**

The project proponent shall ensure that no natural water course and/or water recourses shall be obstructed due to any mining operations. Necessary safe guard measures to protect the first order streams if any, originated from the mine lease shall be taken.

✓ **Compliance**

We ensure that no natural water course and/or water recourses has not obstructed due to any mining operations. There is no first order streams originated from the mine lease.

➤ **Condition 42**

Monitoring of Ambient Air Quality to be carried out based on the notification 2009, as amended from the time to time by the Central Pollution Control Board. Water sprinkling should be increased at places loading and unloading points and transfer points to reduce fugitive emission.

✓ **Compliance**

We are carrying out monitoring of Ambient Air Quality based on the notification 2009, as amended from the time to time by the Central Pollution Control Board. Water sprinkling has installed at places via loading and unloading points and transfer points to reduce fugitive emission.

➤ **Condition 43**

The top soil, if any, shall be temporarily be stored at earmarked site(s) only for the top soil shall be used for land reclamation and plantation. The overburden generated during the mining operation shall be stacked at earmarked dump site(s) only. The maximum height of the dump shall not exceed 8m and width

20m and overall slope of the dump shall be maintained to 45°. The O.B. dump should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for the stabilization of the dump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated area should continue until the vegetation become self-sustaining.

✓ **Compliance**

The area has earmarked for dumping the overburden generated during the mining operation. The maximum height of the dump will not exceed 8m and width 20m and overall slope of the dump will be maintained to 45°. The O.B. dump is scientifically stabilizing by geotextile and suitable native plant species to prevent erosion and surface run off. The entire excavated area will be backfilled. We will monitor and manage the rehabilitated area until the vegetation become self-sustaining.

➤ **Condition 44**

Catch drains and siltation ponds of appropriate site shall be constructed around the mine working mineral and O.B. dumps to prevent runoff water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.

✓ **Compliance**

Catch drains and siltation ponds at appropriate site has constructed for the mine working, mineral and O.B. dumps to prevent runoff water and flow of sediments directly into the river and other water bodies. The water so collected are using for watering the mine area, roads, green belt development etc. The drains are regularly desilted particularly after monsoon and maintained properly.

➤ **Condition 45**

Effective safe guard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM₁₀ and PM₂₅ such as haul road loading and unloading points and transfer points. It shall be ensure that the Ambient Air Quality Parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.

✓ **Compliance**

Effective safe guard measures such as regular water sprinkling are carrying out in critical areas prone to air pollution and having high levels of PM₁₀ and PM₂₅ such as haul road loading and unloading points and transfer points. It is ensuring that the Ambient Air Quality Parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.

➤ **Condition 46**

Fugitive dust emission from all the sources should be controlled regularly. Water spraying arrangements on haul roads, loading and unloading at transfer points. Should be provided and properly maintained.

✓ **Compliance**

Fugitive dust emission from all the sources are controlling regularly. Water spraying arrangements on haul roads, loading and unloading at transfer points has arranged and properly maintained.

➤ **Condition 47**

Measures should be taken for the control of Noise level below 85 DBA in the work environment.

✓ **Compliance**

Different measures will be taken for the control of noise level below 85 DBA in the work environment. We are also checking the Ambient Sound level periodically.

➤ **Condition 48**

A separate Environment Management Cell with suitable qualified personal should be setup under the control of a senior executive who will directly report to the head of the organization.

✓ **Compliance**

A separate Environment Management Cell with suitable qualified personal has formed under the control of a senior executive who will directly report to the head of the organization.

➤ **Condition 49**

The funds earmarked for the Environmental protection measures and CSR activities should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the State Environmental Impact Assessment Authority (SEIAA) office.

✓ **Compliance**

The funds earmarked for the Environmental protection measures and CSR activities are not diverting for other purpose. We will reports year wise expenditure to the State Environmental Impact Assessment Authority (SEIAA) office.

➤ **Condition 50**

The regional office of MOEF and CC located at Bangalore shall monitor compliance of the stipulated conditions. The project Authorities should extent full co-operation to the officer (s) of the regional office by furnishing the requisite data/information/monitoring reports.

✓ **Compliance**

We will extent full co-operation to the MOEF officer (s) of the regional office by furnishing the requisite data/information/monitoring reports.

➤ **Condition 51**

Any appeal against the Environmental Clearance shall lie with the National Green Tribunal, if preferred within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.

✓ **Compliance**

There is no appeal against this Environmental Clearance with the National Green Tribunal.

➤ **Condition 52**

Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in the withdrawal of this clearance and attract action under the provision of Environmental Protection Act, 1986.

✓ **Compliance**

We agreed

➤ **Condition 53**

The SEIAA may revoke, or suspend the order for non-implementation of any of the specific or this implementation of any of the conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further conditions or stipulate any further conditions in the interest of Environmental Protection.

✓ **Compliance**

We agreed

➤ **Condition 54**

The above conditions shall prevail notwithstanding anything to the contrary in consistent or simplified, contained in any other permit, license on consent given by any other authority for any other project.

✓ **Compliance**

We agreed

➤ **Condition 55**

The order is valid for a period of 5 years or the expiry date of mining lease period issued by the Government of Kerala, whichever is earlier.

✓ **Compliance**

We agreed

➤ **Condition 56**

The Environmental Clearance will be subject to the final order of the courts in any pending litigation related to the land or project, in any court of law.

✓ **Compliance**

There is no pending litigation related to the land or project, in any court of law regarding this project.

➤ **Condition 57**

The mining operation shall restrict to above ground water table and it should not intersect ground water table.

✓ **Compliance**

We are carrying out mining activity above the ground water table only and it will not intersect ground water table.

➤ **Condition 58**

All vehicles used for transportation and within the mine shall have 'PUC' certificate from authorized pollution taking center. Washing of all vehicles shall be in the lease area.

✓ **Compliance**

All vehicles using for the transportation within the mine have obtained 'PUC' certificate from authorized pollution taking center. All the vehicles will be washed within in the lease area only.

➤ **Condition 59**

Project proponent should obtain necessary prior permission of the competent authorities for withdrawal of requisite quantity of surface water and ground water for the project.

✓ **Compliance**

For the current project we are using harvested rainwater for all domestic and industrial purposes. We will obtain necessary prior permission of the competent authorities for withdrawal of surface water and ground water for the project at the time of usage of the same.

➤ **Condition 60**

Regular monitoring of flow rates and water quality upstream and down streams of the spring and perennial nallahs flowing in and around the mining lease area shall be carried out and reported in the six monthly reports to the SEIAA.

✓ **Compliance**

We are monitoring the flow rates and water quality upstream and down streams of the spring and perennial nallahs flowing in and around the mining lease.

➤ **Condition 61**

Occupational Health surveillance programme of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures if needed.

✓ **Compliance**

We are carrying out Occupational Health surveillance programme of our workers periodically to observe any contractions due to exposure to dust and take corrective measures if needed in connection with Mines Vocational Training.

ANNEXURE 1

Photograph showing abandoned Mined out pit using as rainwater storage system

ANNEXURE 2

Photographs showing tree planted around parking areas and road sides

Poabson Granite Products Pvt. Ltd.

Fifth Compliance Report

ANNEXURE 3

Photograph showing the Solar Energy device installed within the project area

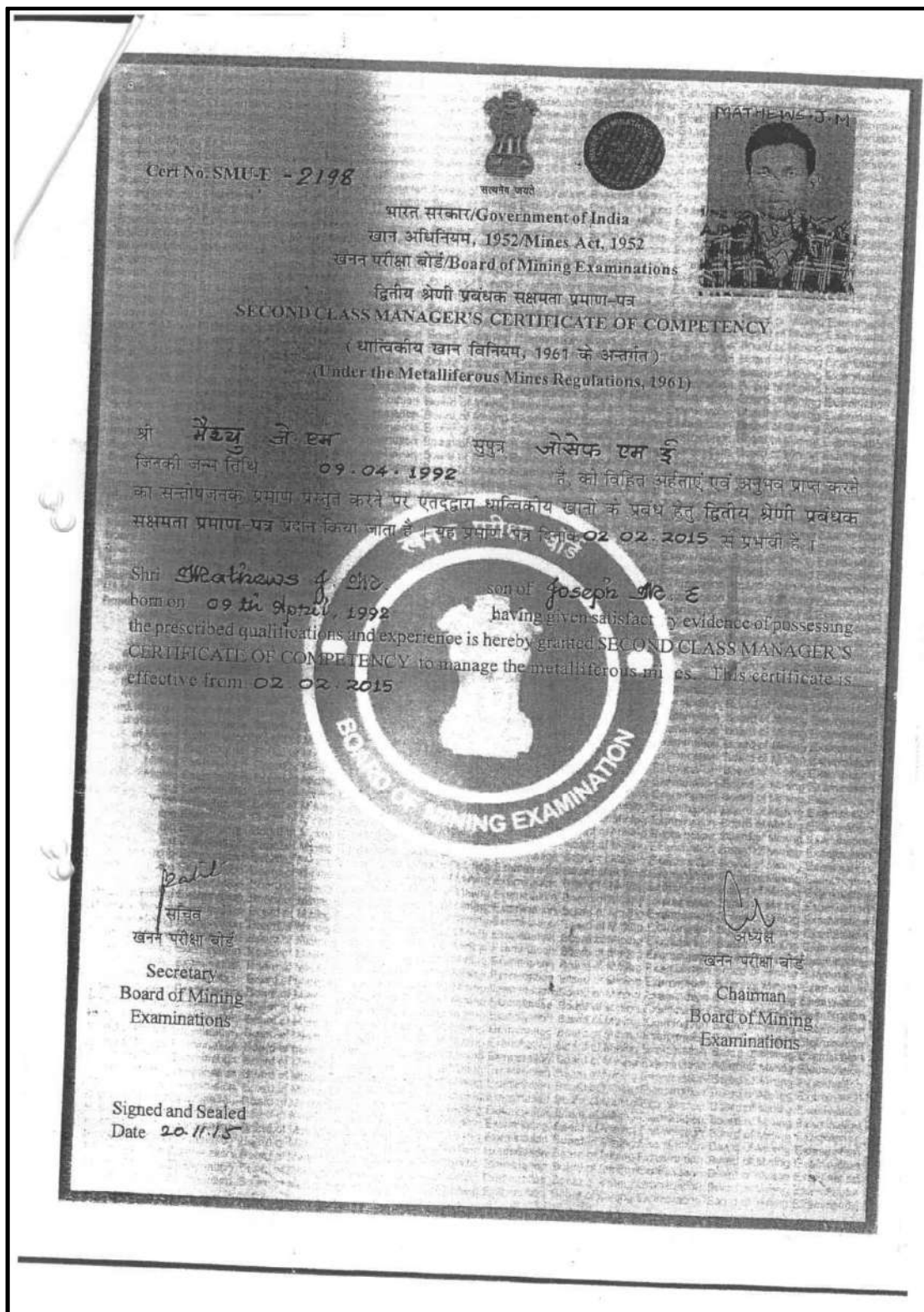
ANNEXURE 4

Photograph showing the Sprinkler system installed in crusher plant and tipper lorry

ANNEXURE 5

Photograph Showing the Barbed metal wire fencing installed around the mining area

ANNEXURE 6



ANNEXURE 7

Photograph showing the tarred Access road to the quarry

ANNEXURE 8



Photograph showing the Overburden/topsoil dump stabilized by geotextiles and vegetation

ANNEXURE 9

Photograph showing the bench type mining

ANNEXURE 10

Photographs showing Storm water pit and Garland drain

Annexure 11



Photograph showing Explosive Magazines

Annexure 12

FILE NO : 1187892
Date of issue : 26/12/2017



KERALA STATE POLLUTION CONTROL BOARD

CONSENT TO

OPERATE/AUTHORISATION/REGISTRATION

ISSUED UNDER

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

and

The Environment (Protection) Act, 1986

As per Application No. :1187892
Dated:22-12-2017

TO

M/s POABSON GRANITE PRODUCTS (P) LTD(QUARRY)
THELAKKAD.PO, PERINTHALMANNA, MALAPPURAM.DT

Consent No. :PCB/CO/7633/17
Valid Upto :30/11/2022

Page1

1. GENERAL

1.1. This integrated consent is granted subject to the power of the Board to withdraw consent, review and make variation in or revoke all or any of the conditions as the Board deems fit.

| | | |
|----|---------------------------------------|---|
| 1 | VALIDITY | 30/11/2022 |
| 2 | Name and Address of the establishment | POABSON GRANITE PRODUCTS (P) LTD.(QUARRY) THELAKKAD.PO, PERINTHALMANNA, MALAPPURAM.DT 679325 |
| 3 | Communication | Telephone :04933-276300 Fax :- E-mail:pmna@poabs.in |
| 4 | Occupier Details | SRI.K.A.ABRAHAM, MANAGING DIRECTOR, M/S POABSON GRANITE PRODUCTS (P) LTD, THELAKKAD.PO, PERINTHALMANNA, MALAPPURAM.DT |
| 5 | Local Body | VETTATHUR |
| 6 | Survey Number | 59/2 |
| 7 | Village | KARYAVATTOM |
| 8 | Taluk | PERINTHALMANNA |
| 9 | District | MALAPPURAM |
| 10 | Capital Investment(Rs in Lakhs) | 1000.0/- |
| 11 | Scale | Medium |
| 12 | Category | RED |
| 13 | Annual fee(Rs) | 75000/- |
| | Total Fee remitted(Rs) | 412500/- |
| 14 | RAW MATERIAL | PRODUCTS |
| | | BLASTED RUBBLES @5 Metric Tonnes/DAY (Quarrying in 4.5000 hectares of land in survey no. 59/2 of Kariavattom village Perinthalmanna Taluk,Malappuram Dist) |
| 15 | Total Power Required (HP) | NIL |

2. CONDITIONS AS PER

The Water(Prevention and Control of Pollution)Act, 1974

- 2.1 In case of generation of trade effluent from the industry, effluent treatment system consisting of treatment units having adequate capacity established as per the Integrated Consent to Establish issued shall be operational at all times during which the industry is functional. Additional facilities required, if any, to achieve the standards laid down by the Board u/s 17(1) (g) of the Water Act shall also be made along with.

2.2 Water consumption: NIL

2.3 Effluent generation: -

2.4 The characteristics of effluent after treatment shall confirm to the following tolerance limits:

| Sl.NO. | Characteristics | Unit | Tolerance Limit | |
|--------|-----------------|------|-----------------|----------------|
| | | | Sewage | Trade Effluent |

2.5 Mode of disposal of treated effluent: -

3. CONDITIONS AS PER

The Air(Prevention and Control of Pollution)Act, 1981

3.1 Adequate air pollution control measures shall be operational at all times during the functioning of the industry. Additional facilities required, if any, to achieve the standards laid down by the Board shall also be made along with.

| Stack No. | Sources of Emission | Emission Rate(Nm3/Hr) | Stack Height above | | Control Equipment |
|-----------|---------------------|-----------------------|--------------------|------------|-------------------|
| | | | Ground Level | Roof Level | |

3.2 Emission characteristics shall not exceed the following:

| Sl.No. | Parameter | Limiting Standards (mg/Nm3) |
|--------|-----------|-----------------------------|
|--------|-----------|-----------------------------|

4. CONDITIONS AS PER

The Environment (Protection) Act, 1986.

4.1 The operation of the industry shall be strictly in compliance with the provisions of the Noise Pollution (Regulation and Control) Rules 2000.

4.2 Used lead acid batteries shall be disposed of as per the Batteries (Management and Handling) Rules, 2001

4.3 Hazardous waste generated, if any, shall be handled as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

4.3.1 Activities for which Authorisation is granted

| | | | |
|------------|--|-----------------------|--|
| Collection | | transport | |
| Reception | | Storage | |
| Treatment | | Reprocessing/Disposal | |

4.3.2 Type, quantity and mode of storage/collection/disposal of hazardous wastes shall be as follows:

| Sl.No. | Hazardous Waste | Schedule Category | Quantity Tonne/year |
|---------|-----------------|-------------------|---------------------|
| Mode of | | | |
| Storage | | Disposal | |

4.4 E-waste shall be disposed off safely as per the E-Waste (Management) Rules, 2016.

5. SPECIFIC CONDITIONS

- 5.1. The location of the Quarry shall be as per the approved drawing attached.
- 5.2. The PM 2.5 in ambient air at the boundary shall not exceed 60 microgram/m³
- 5.3. For renewal of the consent in case of continuance of discharge/operation of the industry, application in the prescribed form shall be submitted through the web portal of the Board foOnline Consent Management & Monitoring System 3 months before the end of validity period. Late application will be accepted only with a fine /late fee as applicable.
- 5.4. Boundary shall be fenced before operation of quarrying activities.
- 5.5. The concentration of PM10 at the boundary shall not exceed 100 microgram/m³.
- 5.6. After extraction at the site is completed, the land may be used for rain water harvesting with protective barriers/any other suitable approved purpose or may be reclaimed.
- 5.7. The applicant shall comply with the instructions that the Board may issue from time to time regarding the prevention and control of air, water, land and sound pollution.
- 5.8. No change or alteration of the quarrying area is to be made without the prior written permission of the Board. Any change in the particulars furnished and/or in the identity of the occupier/authorized agent is to be intimated to the Board forthwith.
- 5.9. The ambient air quality measured at 1 m outside the boundary of the premises shall not exceed the ambient air quality applicable to the adjoining area.
- 5.10. The sound level measured at 1 m outside the boundary of the premises shall not exceed the ambient sound level applicable to the adjoining area.
- 5.11. Suitable species of trees and curtain plants shall be planted and maintained within and along the periphery of the premises, forming a green belt to improve the environment.
- 5.12. The consentee shall put up a sign board of size 6x4 ft. near the main entrance of the plant to display the name of the unit and important consent conditions.
- 5.13. Bench cutting method shall be adopted for quarrying.
- 5.14. Blasting shall be done with prior signals in specified time. No. of blasting shall not exceed 10nos. at a time.
- 5.15. Blasting and quarrying shall be done without causing any nuisance or damage to occupants of adjoining or neighbouring land or building or posing damage to health, life or property.
- 5.16. Mining below normal water table by continuous pumping shall be avoided in summer period (March, April, May) to prevent drinking water shortage in that area.
- 5.17. Noise creating activities such as drilling, blasting, breaking, loading etc shall not be done during night time (6pm-6am).
- 5.18. The applicant shall submit copies of all relevant permits/lease/certificate/licences periodically to this office to ensure the validity of this consent.
- 5.19. The conditions in the Environmental clearance shall be complied.
- 5.20. All other statutory or necessary clearances from other concerned authorities shall be obtained before commencing any quarrying operations.
- 5.21. Minimum distance of 50m shall be maintained from boundary of quarrying area to residential building, places of worships, public buildings, public roads, river, lake, railway lines and bridges.

Reference:-

- 1) Mining & Geology letter No.: 8704/M3/2017 DATED:02.11.2017
- 2) Explosive license No: E/SC/KL/22/10(E8569) DATED:27.03.2015
- 3) Environmental Clearance No.: 946/SEIAA/EC1/4152/2015 Dated:16.08.2017.

DATE :26/12/2017

VINAYA K S

Digitally signed by VINAYA K S
Date: 2017.12.26 11:28:22
+05'30'

SIGNATURE & SEAL OF ISSUING AUTHORITY
ENVIRONMENTAL
ENGINEER,DO,MALAPPURAM

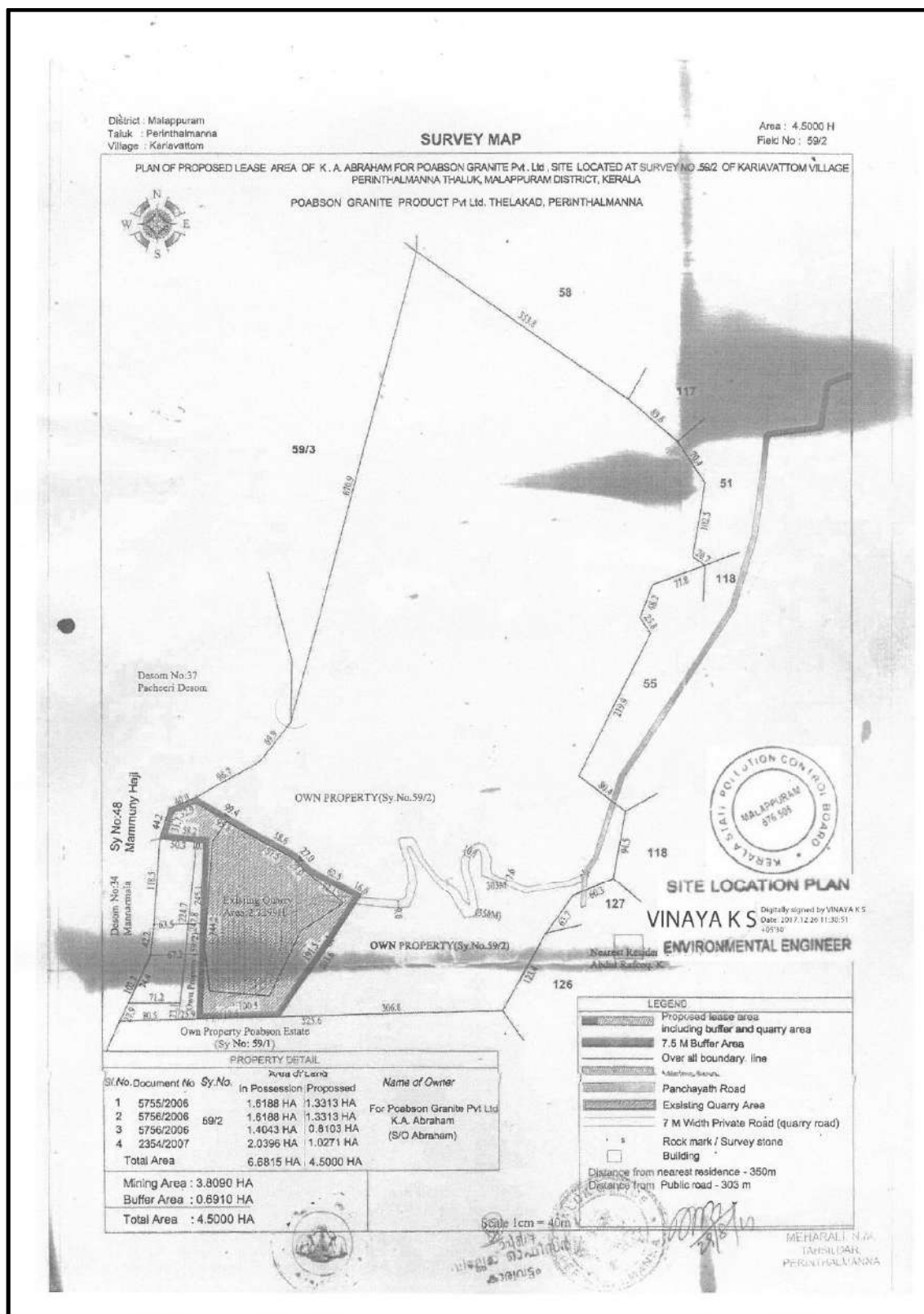


To

STOCK FILE

1. This digitally signed document is legally valid as per the Information Technology Act 2000
2. For verifying this document please go to krocmms.nic.in and search using date of issue/name of the unit/Application Number in "Consent Granted Applications" link in the home page of the Board's Online Consent Management and Monitoring System.


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ANNEXURE 13

[illegible]

ANNEXURE 14


GOVERNMENT OF INDIA
MINISTRY OF COMMERCE & INDUSTRY
PETROLEUM AND EXPLOSIVES SAFETY ORGANISATION (PESO)
(Formerly Department of Explosives)
Kendriya Bhavan, Block C-2, 3rd Floor
CSEZ P.O. Kakkanad Dist. Ernakulam Ernakulam 68201
Tele: 2427286 Fax: 2427276
Email: dycceernakulam@explosives.gov.in

No: E/SC/KL/22/10(E8569)

To,
Shri K.A. ABRAHAM MG. DIRECTOR,
M/s POABSON GRANITE PRODUCTS PVT. LTD., Thelakkad P.O. FERINTHALM (NNA), MALAPPURAM DISTRICT,
KERALA
Town/Village - NILAMBUR
Dist. MALAPPURAM, State Kerala Pincode-679325

Dated: 27/03/2015

Subject: Possession for Use of Explosives from magazine at Survey No(s): 3/1, Village Town.
KARYAVATTOM, Dist. MALAPPURAM, State Kerala Licence No.: E/SC/22/10(E: 69) granted in
Form LE-3 of Explosives Rules, 2008 - Renewal regarding


Sir(s),

Reference to your letter No. E/SC/KL/22/10(E8569) dated 12/01/2015, the subject licence duly renewed upto 31/3/2020 issued in Form LE-3 of Explosives Rules, 2008 is forwarded herewith.

Conditions:

- (1) Valid authorized quarry permit in the name of licensee for blasting operations a survey no. 3/1, Village Karyavattom and local state Govt authorities approval as applicable renewed from time to time shall be in possession. If any change of quarry or additional quarry is involved necessary prior approval/endorsement obtained from the licensing authority shall be in possession.
- For further renewal of licence, please submit the following documents so as to reach this office on or before 1/3/2020.
 - Application in Form RE-1 duly filled in and signed.
 - Licence fees for one to five years in the form of demand draft drawn on an Nationalized Bank in favour of Jt. Chief Controller of Explosives, Chennai payable at Chennai.
 - Original licence with approved plan.
 - In this connection, please also refer to Rule 112 of Explosives Rules, 2008.
- Indent for purchase of explosives shall be placed in RE-11 with the supplier and copy of the same shall be sent to this office (Not applicable for fireworks store house).
- Please submit quarterly returns of explosives in RE-7 at the end of every quarter so as to reach this office by 10th of the succeeding quarter (Not applicable for fireworks store house).
- All blasting operations shall be carried out by a competent person holding a valid shot firing permit granted under above rules. However, blasting operations in mines coming under the purview of the Mines Act, 1952, the master shall have qualifications prescribed in the regulations framed under the said Act.

Enclosures:

Yours faithfully,

A.B. Tamgadge
Controller of Explosives
For Dy. Chief Controller of Explosives
എ. ബി. താമ്ഗാഡ്
For Deputy Chief Controller of Explosives
എ. കൃഷ്ണ / Enakulam

Copy Forwarded to:



1. District Magistrate, MALAPPURAM (Kerala) for information.

For Dy. Chief Controller of Explosives
Enakulam

LICENCE FORM LE-3
(See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008)

Licence to possess : (c) for use, explosives of class 1, 2, 3, 4, 5, 6 or 7 in a major

Licence No. : E/SC/KL/22/10(E8569)
Annual Fee Rs:4200/-

1. Licence is hereby granted to : **Shri K.A. ABRAHAM M.G. DIRECTOR (Occupier : SHRI CA ABRAHAM)**
M/s. POABSON GRANITE PRODUCTS PVT. LTD., Thelakkad
P.O. PERINTHALMANNA, MALAPPURAM DISTRICT, KERALA, Town/Village - NILAMBUR
District-MALAPPURAM, State-Kerala, Pincode - 679325

2. Status of licensee : **Individual**

3. Licence is valid only for the following purpose : possess for use of **Nitrate Mixture, Safety Fuse, Detonators,**

4. (a) Licence is valid for the following kinds and quantity of explosives:

| Sr. No. | Name and Description | Class & Division | Sub-division (If any) | Quantity at any one time |
|---------|----------------------|------------------|-----------------------|--------------------------|
| 1. | Nitrate Mixture | 2,0 | 0 | 500 Kg. |
| 2. | Safety Fuse | 6,1 | 0 | 30000 Mtrs |
| 3. | Detonators | 6,3 | 0 | 20000 Nos. |

(b) Quantity of explosives to be purchased in a calendar month [applicable for licence under article 3(b) and (c)] : **10 times as above.**

5. The licensed premises shall conform to the following drawing(s):
Drawing No : E/SC/KL/22/10(E8569) dated : 12/05/1995

6. The licensed premises are situated at following address:
Survey No(s). 59/1, Town/Village : KARYAVATTOM
Police Station : MELATTOOR District : MALAPPURAM State : Kerala
PinCode : Phone : E-Mail : Fax :

7. The licensed premises consist of following facilities : **A magazine with a high exp. room and a detonator room**

8. The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures.
 (1) Drawings (showing site, constructional and other details) as stated in serial No. 5 above.
 (2) Conditions and Additional Conditions of this licence signed by the licensing authority.
 (3) Distance Form DE-2

9. This licence shall remain valid till **31st day of March 2005**

This licence is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under Set VIII, wherever applicable, referred to in Part 4 of

Schedule V or if the licensed premises are not found conforming to the description shown in the plans and Annexure attached hereto.

The Date: 12/05/1995

Sd/-
Joint Chief Controller of Explosives
South Circle, Chennai

Amendments :

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 20/05/2011
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 09/03/2012

Endorsement for renewal of licence:

| Date of Renewal | Date of Expiry | Signature of licensing authority |
|-----------------|----------------|---|
| 27/03/2015 | 31/03/2020 | Dy. Chief Controller of Explosives, Emakulam கூடுதல் அபிவிருத்தி அலுவலர் For Deputy Chief Controller of Explosives எமாசுலம் / Emakulam |

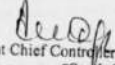
Statutory Warning : Mishandling and misuse of explosives shall constitute serious criminal offence under the law.

(Set VIII)

The following are the conditions of licence number E/SC/KL/23/10(E85) to possess for sale or use, explosives of Class 1,2,3, 4, 5, 6 and 7 in a magazine in Form LE-3 (articles 3(b) to (c)) granted by Chief controller of Explosives or Controller of Explosives.

1. The quantity of explosives on the premises at any one time shall not exceed the licensed capacity.
2. The magazine used for storage of explosives shall maintain safety distance specified in Schedule III and annexure to the licence.
3. The magazine shall be used only for keeping all explosives specified in this licence and for receptacles for, or tools or implements for work connected with the keeping of such explosives.
4. The opening of packages and the weighting and packing of explosives shall not be carried on in the magazine.
5. Two or more description or explosives which may be permitted to be kept in the magazine shall be kept only if they are separated from each other by an intervening partition of such substance or character, as by such intervening space, as will effectually prevent explosion or fire in the one communicating with the other; Provided that—
(d) the various explosives of Class 2 (nitrate-mixture), Class 3 (nitro-compound), safety fuses belonging to Class 6 Division 1 and detonating fuses belonging to Class 6 Division 2 as do not contain any exposed iron or steel, may be kept with each other without any intervening partition or space;
(e) Detonators belonging to Class 6 Division 3 shall be kept separately.
(f) Gun powder belonging to Class 1 shall be kept separately.
6. Explosives of Class 3 (nitro compound) shall not be kept in the magazine after the expiration of one year from the date of their manufacture except with the special sanction of licensing authority.
7. Explosives of Class 3 (nitro compound) shall not be kept in the magazine after the expiration of one year from the date of their manufacture except with the special sanction of the Controller of Explosives.
(i) When such sanction has been given, a written certificate showing the period covered by the sanction shall be obtained from the Controller of Explosives at each inspection, and shall be kept by the licensee and produced on demand.
(ii) When an explosive owing to its being no longer of standard purity or owing to signs of liquefaction or of exuded nitro-glycerin or liquid nitro-glycerin or liquid nitrocompound is no longer fit for storage in the magazine or store house the licensee shall comply, at his own expense, with such directions as to its disposal as the Chief Controller or Controller of Explosives may issue.
8. The interior of the magazine and the benches, shelves and fittings therein shall be so constructed or so lined or covered as to prevent the exposure of any iron or steel contact with the explosives. Such interior, benches, shelves and fittings shall so far as is reasonably practicable, be kept free from grit and shall otherwise be clean; and in the case of any explosives liable to be dangerously affected by water, due precautions shall be taken to exclude water there from; Provided that so much of this condition as relates to precautions against the exposure of any iron or steel shall not be obligatory in a building in which no explosive other than explosive of the 1st Division 6th (Ammunition) Class is kept.
9. If the lighting conductor is tested by the Controller of Explosives, the licensee shall pay the fees prescribed for test. In the event of the test proving unsatisfactory, the same fees shall be payable by the licensee for each subsequent test until the lighting conductor is passed by the testing officer as satisfactory.
Provided that the fees payable for a single test shall be charged for all tests made on a conductor during any one day :
Provided further that where two or more lighting conductors are attached to one and the same magazine, the fee for the testing of all such conductors shall not exceed the fee prescribed in this condition for testing a single lighting conductor.
10. Due provisions shall be made, by the use of suitable working clothes without jackets, suitable shoes and by searching or otherwise or by such means, for preventing the introduction into danger areas of the factory premises of fire, Lucifer matches or any substance or article likely to cause explosion or fire, but this condition shall not prevent the introduction of an artificial light of such construction, position or character as not to cause any danger of fire or explosion;
Provided that so much of this condition as applies to the exclusion of iron or steel, shall not be obligatory in a building in which no explosive other than an explosive of the 1st Division of the 6th (Ammunition) Class is kept.
11. The licensee shall keep records and accounts of all explosives in Forms RE-3 and RE-4 or RE-5, as the case may be, and exhibit the stock books and records to any of the officers authorised under the Explosives Rules, 2008 whenever page numbered.
12. No changes or alterations shall be carried out to the premises without prior approval of the licensing authority and the licensee shall comply with any condition that may be specified by the licensing authority in its behalf.
13. Magazine shall at all times be kept in state of good repair (or maintained in good condition) The licensee shall report to licensing authority forthwith, if the magazine becomes unfit for storage of any explosives or any reason whatsoever.
14. The licensee of the magazine shall submit quarterly return as per sub-rules (3) and (4) of rule 24 of these rules.
15. Any encroachment of the safety distance shall be immediately communicated to the licensing authority for necessary advice and action.

16. The licensing authority shall be immediately informed for advice if any explosive is found deteriorated or unserviceable.
17. The explosive packages shall be stocked in such a way so as to allow movement of at least one person to check the condition of all packages stored and to read the manufacture particulars of each package.
18. The resistance of the lightning conductor to earth shall be as low as possible and in no case be more than 10 ohms.
19. A distance of 15 meters surrounding the magazine or store house shall be kept clear of dried grass or bush or flammable materials.
20. Every package of explosive at the time of bringing inside the magazine shall be examined for its sound condition.
21. Not more than 4 persons shall be allowed inside the magazine or store house at any one time.
22. Empty packages of the explosives shall be removed at the earliest and destroyed.
23. The licensee and the employee shall be conversant with procedure to be taken during the emergency within the premises.
24. Free access to the licensed premises shall be given at all reasonable times to any inspecting or sampling officer and every facility shall be afforded to the officer for ascertaining that the provisions of the Act and these rules and the safety conditions are duly observed.
25. If the licensing authority or a Controller of Explosives informs in writing, the holder of the licence to execute any repairs or to make any additions or alterations to the licensed premises or machinery, tools or apparatus or carry out recommendations, which are in the opinion of such authority may pose unacceptable risk and so necessary for the safety of either on-site or off-site of the premises or persons, the holder of the licence shall execute the recommendations and report compliance within the period specified by such authority.
26. The licensee shall purchase authorised explosives/ fireworks or safety fuse as mentioned in the list authorised.
27. The possession and sale of fire-crackers generating noise level exceeding:
 - a) 125 dB(A) or 145 dB(C)pk at 4 meters distance from the point of burning shall be prohibited;
 - b) For individual fire-cracker constituting the series (joined fire-crackers), the above mentioned limit be reduced by 5 log₁₀ (N) dB, where N = number of crackers joined together.
28. Accidents by fire or explosion and losses, shortage or theft of explosives shall be immediately reported to the nearest police station and the licensing authority and local office of the licensing authority.


 For Joint Chief Controller of Explosives
 कृ. उप मुख्य विस्फोटक नियंत्रक
 For Deputy Chief Controller of Explosives
 एस. कुलम / Ernakulam

Form DE-2
(See rule 113 of the Explosives Rules, 2008)
(Distance Form to be attached to the licence)

Safety distances required to be kept clear around magazine for high explosives or fire works or factory licence number E/SC/KL/22/10(E8569) in form LE-3 granted to Shri K.A. ABRAHAM MG, DIRECTOR M/s. POABSON GRANITE PRODUCTS PVT. LTD., Thekkad P.O. PERINTHALMANNA, MALAPPURAM DISTRICT, KERALA, Kerala.

| Type of Structure(s) | Safety distances meters | |
|---|-------------------------|----|
| Inside Safety Distances(ISD) | | |
| 1 Room or Workshop used in Connection with the Magazine | M | UM |
| 2 Any other Explosives Magazine or store House or Factory of the Applicant | 19 | 25 |
| 3 Magazine Office | | |
| Middle Safety Distances(MSD) | | |
| 4 Magazine Keeper's or Chowkidar's Dwelling house | | |
| 5 Railway including Minerals and Private Railways | | |
| 6 Canal (in active use) or other navigable water | | |
| 7 Dock or Pier or Jetty | | |
| 8 Public Highway or Public Road | | 48 |
| 9 Private Road which is PRINCIPAL means of access to a Temple, Mosque, Church, Gurudwara or other places of worship, Hospital, College, School or Factory | | |
| 10 River Embankment or Sea Embankment or Public Well | | |
| 11 Reservoir or Bounded tank/rope way | | |
| 12 Windmill or Solar panel for Power Generation | | |
| Outside Safety Distances(OSD) | | |
| 13 Dwelling House | | |
| 14 Govt. and Public Building | | |
| 15 Temple, Mosque, Church or Gurudwara or other Places of Worship | | |
| 16 Shops, Market place, Public recreation and Sports Ground, College, School, Hospital, Theater, Cinema or other Building where the public are accustomed to assemble | | |
| 17 Factory | | |
| 18 Buildings or Works used for the Storage in Bulk of Petroleum, Spirit, gas, or other inflammable or hazardous substances | | 95 |
| 19 Building or Works used for Storage and Manufacture of Explosives or of articles which contain Explosives | | |
| 20 Aerodrome | | |
| 21 Furnace, Kiln or Chimney | | |
| 22 Quarry or mine pit head | | |
| 23 Power House or Electric Substation | | |
| 24 Wireless Station | | |
| 25 Warehouse or other Storage Building | | |
| 26 Any other Protected works | | |
| Overhead Electric lines | | |
| 27 Electric Power over head Transmission Lines above 440V | | 90 |
| 28 Electric Power over head Transmission Lines upto 440V | | 15 |

The Date : 12/05/1995

[Signature]
For Joint Chief Controller of Explosives
South Circle, Chennai

Amendments :

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 20/03/2011
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 09/03/2012

കു : ഉപ മുഖ്യ വിസ്ഫോടക നിയന്ത്രിക
F : Deputy Chief Controller of Explosives
എ : നാകുലം / Ernakulam

ANNEXURE 15

THE EXPRESS KERALA
MUSCOODE
SUNDAY 27.08.2017

RIGHT TO PRIVACY

SC verdict to have major impact on health sector

THIS CITY

The Supreme Court's ruling on the right to privacy has a major impact on the health sector. The court has held that the right to privacy is a fundamental right under Article 21 of the Constitution. This means that the state cannot interfere with the privacy of its citizens without a valid reason. The ruling is expected to have a major impact on the health sector, particularly in relation to the collection and use of personal data.

The court's decision is a landmark one, as it is the first time that the right to privacy has been recognised as a fundamental right. This means that the state cannot interfere with the privacy of its citizens without a valid reason. The ruling is expected to have a major impact on the health sector, particularly in relation to the collection and use of personal data.

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SABARIMALA

State Govt intervention sought

BARED A NEW SERVICE

BY ANANTH

The Sabarimala temple authorities have sought intervention from the state government to allow a new service to be provided to pilgrims. The service is expected to have a major impact on the health sector, particularly in relation to the collection and use of personal data.

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LAND GRAB

VIGILANCE COURT ORDERS VACB TO REGISTER CASE AGAINST FIVE PERSONS

BY ANANTH

BY ANANTH

BY ANANTH

BY ANANTH

BY ANANTH

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ANNEXURE 17

POABSON GRANITE PRODUCTS PVT. LTD.
 Theiakkad P. O., Pattikkad Via, Perinthalmanna - 679 325
 Malappuram Dt., Kerala.
 Ph: +91 - 4933 245120, 245189
 E-mail: prina@poabs.in, www.msand.in

TIN: 32100752474
 CST: 32100752474-C

Dt: 25/08/2017

The Secretary,
 Vettathoor Panchayat,
 Malappuram District,
 Kerala.

Sub:- Environment Clearance (E.C.) – Proposed Quarry project at Survey No. 59/2,
 at Vettathoor Panchayat, Kariyavattom Village, Perinthalmanna Taluk,
 Malappuram District, Kerala - Submission of the E.C. Order – Compliance
 to the condition of Environment Clearance – Reg.

Respected Sir,

This refers to the Environment Clearance obtained for our proposed
 quarry project at Survey No. 59/2, at Vettathoor Panchayat, Kariyavattom
 Village, Perinthalmanna Taluk, Malappuram District, Kerala issued by
 State Environment Impact Assessment Authority (SEIAA), Kerala vide
 Order No. 946/SEIAA/EC1/4152/2015 dt. 16/08/2017.


We hereby submit a self attested copy of the Environment Clearance
 Order No. 946/SEIAA/EC1/4152/2015 dt. 16/08/2017.


This is in compliance to the condition of the E.C. Order.

Kindly acknowledge the receipt of the same.

Thanking you,

Yours respectfully,
 For Poabson Granite Products Pvt. Ltd.,


 K.A. Aravam,
 (Managing Director)


 Secretary
 Vettathur Grama Panchayath
 Malappuram

Encl: As above

Regd. Office: Kuttur P. O., Tiruvalla, Kerala, India - 689 106, Ph: +91 - 469 2743300, Fax: +91 - 469 274333, E-mail: mail@poabs.com

ANNEXURE 18



കേരളം KERALA

AX 756153

AFFIDAVIT

I, K.A. Abraham, Managing Director & Authorized Signatory of M/s. Poabson Granite Products Pvt. Ltd. having its correspondence office at Kutloor P.O., Thiruvalla, Kera'a - 689 106 do hereby affirm and confirm as follows:-

1. That, M/s Poabson Granite Products Pvt. Ltd. proposes to develop a quarry project at Survey No. 59/2, at Vettathoor Panchayat, Kariyavattom Village, Perinthalmanna Taluk, Malappuram District, Kerala.
2. That, the Environment Clearance proceedings number and date are Order No. 946/SEIAA/EC1/4152/2015 dt. 16/08/2017.
3. That, all the conditions stipulated in the Environment Clearance would be scrupulously followed.



A.P. Gokulachandran
A.P. Gokula Chandran, Esq.,
Advocate & Notary
Thiruvalla, Kerala.

DEPONENT

K.A. Abraham
K.A. Abraham, Managing Director
Poabson Granite Products Pvt. Ltd.
Kutloor P.O., Thiruvalla
No. 8/1237 RS. cert.
7/1/17.

K.A. Abraham
K.A. Abraham, Managing Director
Poabson Granite Products Pvt. Ltd.
Kutloor P.O., Thiruvalla





കേരളം KERALA

AX 756154

Verification:

Verified that my above statements are true to the best of my knowledge and belief and nothing material has been concealed therein.

DEPONENT

Place: Malappuram

Date: 25/08/2017




Solemnly affirmed and signed before me by the deponent who is personally known to me in my office at Thiruvalla on this the 25th day of August 2017

A.P. Gokula Chandran, Advocate & Notary
Reg. No. 1387/1988 Thiruvalla.

10.8/228
21/11/4
K.A. Abraham Managing Director
Poabson Granite Products Pvt. Ltd.
Kutthoor P.O. Thiruvalla
RS. conf.



Water, Air and Noise Analysis reports



POLUCHEM LABORATORIES (P) LTD.
CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY
PALLATH BUILDING, N. KALAMASSERY P. O., ERNAKULAM - 683104
Phone : 0484-2544030, 8281982322, 9747400085, 9747400089, www.poluchem.com, poluchem@gmail.com

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TEST REPORT

Ref.No. PL/RT/SW/13241/2019

Date of Issue: 24/12/2019

Page 01 of 02

Name & address of customer : M/s Poabs Granite Product(P) Ltd
 Thelakkad, Perinthalmanna
 Malappuram

Project Site : M/s Poabs Granite Product(P) Ltd
 Sy.No.59/2
 Village - Kariavattom
 Panchayath- Vettathoor
 Taluk-Perinthalmanna
 District - Malappuram, Kerala

Sample drawn by : Poluchem Laboratory Sample Collector

Sample description : Water Sample

Location of sampling : Surface water

Date of sample collected : 19/12/2019

Date of analysis started : 19/12/2019

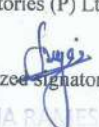
Date of completion of analysis : 23/12/2019

| Parameters tested | Test method | Results | Acceptable Limit As Per IS 10500-2012 |
|---------------------------------------|-------------------------------|--------------|---------------------------------------|
| Color | IS 3025 (P) 04 – 1983 RA2017 | 8 Hazen Unit | 5 Hazen Unit |
| Odour | IS 3025 (P) 05 – 1983 RA2017 | Agreeable | Agreeable |
| Turbidity | IS 3025 (P) 10 – 1984 RA2017 | 3 NTU | 1 NTU |
| pH | IS 3025 (P) 11 – 1983 RA 2017 | 6.24 | 6.5 – 8.5 |
| Total Dissolved Solids | IS 3025 (P) 16 – 1984 RA2017 | 74.6 mg/l | 500 mg/l |
| Total Hardness as CaCO ₃ | IS 3025 (P) 21 – 1983 RA2014 | 21.3 mg/l | 200 mg/l |
| Total Alkalinity as CaCO ₃ | IS 3025 (P) 23 – 1986 RA2014 | 16.8 mg/l | 200 mg/l |
| Residual Chlorine | IS 3025 (P) 26 – 1986 RA2014 | BDL | 0.2 mg/l |
| Chloride as Cl ⁻ | IS 3025 (P) 32 – 1988 RA2014 | 16.3 mg/l | 250 mg/l |
| Calcium as Ca | IS 3025 (P) 40 – 1991 RA2014 | 4.14 mg/l | 75 mg/l |
| Magnesium as Mg | IS 3025 (P) 46 – 1994 RA2014 | 2.61 mg/l | 30 mg/l |
| Total Iron as Fe | IS 3025 (P) 53 – 2003 RA2014 | 0.65 mg/l | 0.3 mg/l |
| Sulphate as SO ₄ | IS 3025 (P) 24 – 1986 RA2009 | 7.42 mg/l | 200 mg/l |
| Fluoride as F | IS 3025 (P) 60 -2008 RA 2013 | 0.2 mg/l | 1.0 mg/l |

Note : BDL – Below Detection Level

For Poluchem Laboratories (P) Ltd.

Authorized Signatory,


SREEJA RAMESH
 Quality Manager



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Page 02 of 02

Continuation of Test Certificate No: 13241/2019

| Parameters tested | Test method | Results | Acceptable Limits As per IS-10500-2012 |
|-------------------|-----------------------------|---------|---|
| Selenium as Se | IS 3025 (P)56 -2003 RA2014 | BDL | 0.01 mg/l |
| Arsenic as As | IS 3025(P) 37- 1988 RA2014 | BDL | 0.01 mg/l |
| Copper as Cu | IS 3025(P) 42- 1992 RA2014 | BDL | 0.05 mg/l |
| Manganese as Mn | IS 3025(P) 59- 2006 RA2017 | BDL | 0.1 mg/l |
| Cadmium as Cd | IS 3025(P) 41- 1992 RA2014 | BDL | 0.003 mg/l |
| Chromium as Cr | IS 3025 (P)52 - 2003 RA2014 | BDL | 0.05 mg/l |
| Zinc as Zn | IS 3025 (P)49 - 1994 RA2014 | BDL | 5 mg/l |
| Mercury as Hg | IS 3025(P) 48 - 1994 RA2014 | BDL | 0.001 mg/l |
| Cyanide as CN | IS 3025(P)27-1986 RA2014 | BDL | 0.05 mg/l |
| Lead as Pb | IS 3025(P) 47- 1994 RA2014 | BDL | 0.01 mg/l |
| Aluminum as Al | IS 3025(P) 55- 2003 RA2014 | BDL | 0.03 mg/l |
| Boron as B | IS 3025(P) 57- 2005 RA2017 | BDL | 0.5 mg/l |

Note : BDL - Below Detection Level

MICROBIOLOGY ANALYSIS

| Parameters tested | Unit | Test method | Results | Acceptable Limit As per IS - 10500-2012 |
|-------------------|----------------------------|--------------------------|---------|--|
| Coliforms | MPN/100ml | IS 1622: 1981 RA 2009 | 90 | Absent |
| E coli | Present or Absent/100ml | IS 1622: 1981 RA 2009 | Absent | Absent |

For Poluchem Laboratories (P) Ltd.

Authorized Signatory

SREEJA RAMESH
Quality Manager

* End of the report*

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



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TEST REPORT

Page 01 of 02

Ref.No. PL/RT/SW/13242/2019

Date of Issue: 24/12/2019

Name & address of customer

: M/s Poabs Granite Product(P) Ltd
Thelakkad, Perinthalmanna
Malappuram

Project Site

: M/s Poabs Granite Product(P) Ltd
Sy.No.59/2
Village - Kariavattom
Panchayath- Vettathoor
Taluk-Perinthalmanna
District - Malappuram, Kerala

Sample drawn by

: Poluchem Laboratory Sample Collector

Sample description

: Drinking Water

Location of sampling

: Open Well Water

Date of sample collected

: 19/12/2019

Date of analysis started

: 20/12/2019

Date of completion of analysis

: 24/12/2019

| Parameters tested | Test method | Results | Acceptable Limit As Per IS 10500-2012 |
|---------------------------------------|-------------------------------|--------------|---------------------------------------|
| Color | IS 3025 (P) 04 – 1983 RA2017 | 5 Hazen Unit | 5 Hazen Unit |
| Odour | IS 3025 (P) 05 – 1983 RA2017 | Agreeable | Agreeable |
| Turbidity | IS 3025 (P) 10 – 1984 RA2017 | BDL | 1 NTU |
| pH | IS 3025 (P) 11 – 1983 RA 2017 | 6.57 | 6.5 – 8.5 |
| Total Dissolved Solids | IS 3025 (P) 16 – 1984 RA2017 | 65 mg/l | 500 mg/l |
| Total Hardness as CaCO ₃ | IS 3025 (P) 21 – 1983 RA2014 | 21.3 mg/l | 200 mg/l |
| Total Alkalinity as CaCO ₃ | IS 3025 (P) 23 – 1986 RA2014 | 19.2 mg/l | 200 mg/l |
| Residual Chlorine | IS 3025 (P) 26 – 1986 RA2014 | BDL | 0.2 mg/l |
| Chloride as Cl ⁻ | IS 3025 (P) 32 – 1988 RA2014 | 14.6 mg/l | 250 mg/l |
| Calcium as Ca | IS 3025 (P) 40 – 1991 RA2014 | 6.32 mg/l | 75 mg/l |
| Magnesium as Mg | IS 3025 (P) 46 – 1994 RA2014 | 2.14 mg/l | 30 mg/l |
| Total Iron as Fe | IS 3025 (P) 53 – 2003 RA2014 | 0.21 mg/l | 0.3 mg/l |
| Sulphate as SO ₄ | IS 3025 (P) 24 – 1986 RA2009 | 3.6 mg/l | 200 mg/l |
| Fluoride as F | IS 3025 (P) 60 -2008 RA 2013 | 0.15 mg/l | 1.0 mg/l |

Note : BDL – Below Detection Level

For Poluchem Laboratories (P) Ltd.

Authorized signatory

GEJA RAMESH
Quality Manager
Poluchem Laboratories (P) Ltd.



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Page 02 of 02

Continuation of Test Certificate No: 13242/2019

| Parameters tested | Test method | Results | Acceptable Limits As per IS-10500-2012 |
|-------------------|-----------------------------|---------|---|
| Selenium as Se | IS 3025 (P)56 -2003 RA2014 | BDL | 0.01 mg/l |
| Arsenic as As | IS 3025(P) 37- 1988 RA2014 | BDL | 0.01 mg/l |
| Copper as Cu | IS 3025(P) 42- 1992 RA2014 | BDL | 0.05 mg/l |
| Manganese as Mn | IS 3025(P) 59- 2006 RA2017 | BDL | 0.1 mg/l |
| Cadmium as Cd | IS 3025(P) 41- 1992 RA2014 | BDL | 0.003 mg/l |
| Chromium as Cr | IS 3025 (P)52 - 2003 RA2014 | BDL | 0.05 mg/l |
| Zinc as Zn | IS 3025 (P)49 - 1994 RA2014 | BDL | 5 mg/l |
| Mercury as Hg | IS 3025(P) 48 - 1994 RA2014 | BDL | 0.001 mg/l |
| Cyanide as CN | IS 3025(P)27-1986 RA2014 | BDL | 0.05 mg/l |
| Lead as Pb | IS 3025(P) 47- 1994 RA2014 | BDL | 0.01 mg/l |
| Aluminum as Al | IS 3025(P) 55- 2003 RA2014 | BDL | 0.03 mg/l |
| Boron as B | IS 3025(P) 57- 2005 RA2017 | BDL | 0.5 mg/l |

Note : BDL - Below Detection Level

MICROBIOLOGY ANALYSIS

| Parameters tested | Unit | Test method | Results | Acceptable Limit As per IS - 10500-2012 |
|-------------------|----------------------------|--------------------------|---------|--|
| Coliforms | MPN/100ml | IS 1622: 1981 RA 2009 | 23 | Absent |
| E coli | Present or Absent/100ml | IS 1622: 1981 RA 2009 | Absent | Absent |

For Poluchem Laboratories (P) Ltd.

Authorized Signatory

* End of the report*

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



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TEST REPORT

Page 01 of 01

| | | |
|---|-----------------------------|--|
| Client Name & Address | Certificate No: | PL/AMB/RT/13240/2019 |
| M/s Poabs Granite Product(P) Ltd Thelakkad, Perinthalmanna Malappuram | Date of issue: | 24/12/2019 |
| | Date of monitoring | 18/12/2019 10.00 Hrs to 19/12/2019 10.00 Hrs |
| | Date of sample received: | 19/12/2019 |
| | Date of analysis | 20/12/2019 |
| | Monitoring Location | M/s Poabs Granite Product(P) Ltd Sy.No.59/2 Village - Kariavattom Panchayath- Vettathoor Taluk-Perinthalmanna District - Malappuram, Kerala |
| | Sample description | Ambient air -Near east side boundary |
| | Sample code given by client | Nil |

| SL NO | PARAMETERS | TEST METHOD | RESULTS | Limit as per NAAQS |
|-------|---|------------------------------|------------------------|-----------------------|
| 01 | Particulate Matter (PM ₁₀) | I S 5182 Part 23 2006RA2012 | 57.1 µg/m ³ | 100 µg/m ³ |
| 02 | Particulate Matter (PM _{2.5}) | CPCB | 31.3 µg/m ³ | 60 µg/m ³ |
| 03 | Sulphur dioxide | I S 5182 Part 2 2001 RA 2017 | 6.3 µg/m ³ | 80 µg/m ³ |
| 04 | Nitrogen dioxide | IS 5182 Part 06 2006 RA2017 | 5.1 µg/m ³ | 80 µg/m ³ |

Note: NAAQS-National Ambient Air Quality Standards

* End of the Report*

The results are related only to the sample collected for analysis. This certificate shall not be reproduced except in full and without the written permission with authorized signatory

For and on behalf of
POLUCHEM LABORATORIES (P) LTD.

AUTHORIZED SIGNATORY

SREEJA P. JAYAKRISHNAN
Quality Manager
PoluChem Laboratories (P) Ltd.