

**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**

(April, 2021 – September, 2021)

INTRODUCTION

M/s Poabson Granite Products Pvt. Ltd. is a stone quarry situated at Survey No. 59/2, Kariavattom Village Vettathur 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 April, 2021 – September, 2021 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

Large portions of the land area covering under the present EC is already under mining activities when it is obtained. 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

In connection with present quarrying 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	Mr. Navin Xavier
4	Senior Geologist	Mr. Tony Pappachan
5	Name of the environmental officer in charge at site	Mr. Raghu
6	Name of the officer Environment, Health and safety at site.	Mr. Mathews JM

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**

In connection with the present quarrying 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**

Approach road, road system of the project site and other connected roads has been watering daily by sprinkler system installed in tipper lorry since

the starting of the project. Dust emission during drilling process are reducing by wet sack. For the suppression of the dust generated during Crushing & Screening operation, Company has installed fixed water sprinkling systems in the Crushing units. 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**

After the closure of the mine, 10% of the excavated pit area will be retained as water storage area. It is proposed 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 performed 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**

We will retain ten percent of the excavated pit area as water storage area after the closure of the mine. It is proposed 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 be planted 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**

All the boundary indicators (boards, stores, markings, etc.) are protecting. 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. 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**

Regarding the present project, 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

We carrying out quarrying operations 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 is the mining plan/ specific condition.

✓ **Compliance**

Quarrying 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**

Mats to prevent fly rock during blasting are provided at the site. A number of 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.

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**

Whole 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**

We provided personal protective devices such as earmuffs, ear plugs, helmet etc. to workers.

Condition 23

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

✓ **Compliance**

Storm water is channelizing from the entire project area 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**

Trucks are covered with tarpaulin sheets after loading, 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 when it is obtained. 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 spent 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**

We complying stipulation by the statutory authorities under different acts and notifications.

➤ **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**

Seventh 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**

We provided Catch drains and siltation ponds at appropriate site 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 are performing 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**

Regarding 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**

There is no spring and perennial nallahs flowing in and around the mining lease.

➤ **Condition 61**

Occupational Health surveillance programme of the workers should be undertaken 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

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

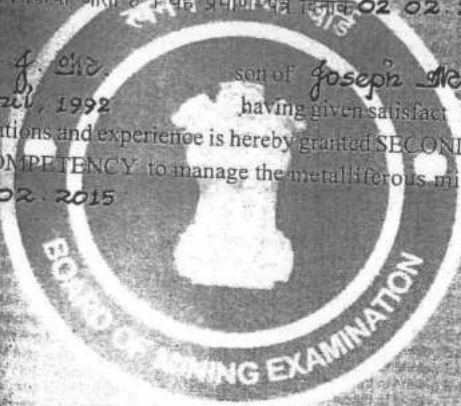
Cert No. SMU-E - 2198

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

द्वितीय श्रेणी प्रबंधक सक्षमता प्रमाण-पत्र
SECOND CLASS MANAGER'S CERTIFICATE OF COMPETENCY
 (धात्विकीय खान विनियम, 1961 के अन्तर्गत)
 (Under the Metalliferous Mines Regulations, 1961)

श्री मैथ्यू जो एम. सुपुत्र जोसेफ एम ई
 जिनकी जन्म तिथि 09.04.1992 है, को विहित अर्हताएं एवं अनुभव प्राप्त करने का सन्तोषजनक प्रमाण प्रस्तुत करने पर एतद्वारा धात्विकीय खानों के प्रबंध हेतु द्वितीय श्रेणी प्रबंधक सक्षमता प्रमाण-पत्र प्रदान किया जाता है। यह प्रमाण-पत्र दिनांक 02.02.2015 से प्रभावी है।

Shri Mathews J. M.
 born on 09th April, 1992
 son of Joseph M. E.
 having given satisfactory evidence of possessing the prescribed qualifications and experience is hereby granted SECOND CLASS MANAGER'S CERTIFICATE OF COMPETENCY to manage the metalliferous mines. This certificate is effective from 02.02.2015



सचिव
 खनन परीक्षा बोर्ड
 Secretary
 Board of Mining
 Examinations

अध्यक्ष
 खनन परीक्षा बोर्ड
 Chairman
 Board of Mining
 Examinations

Signed and Sealed
 Date 20.11.15

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 10 nos. 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



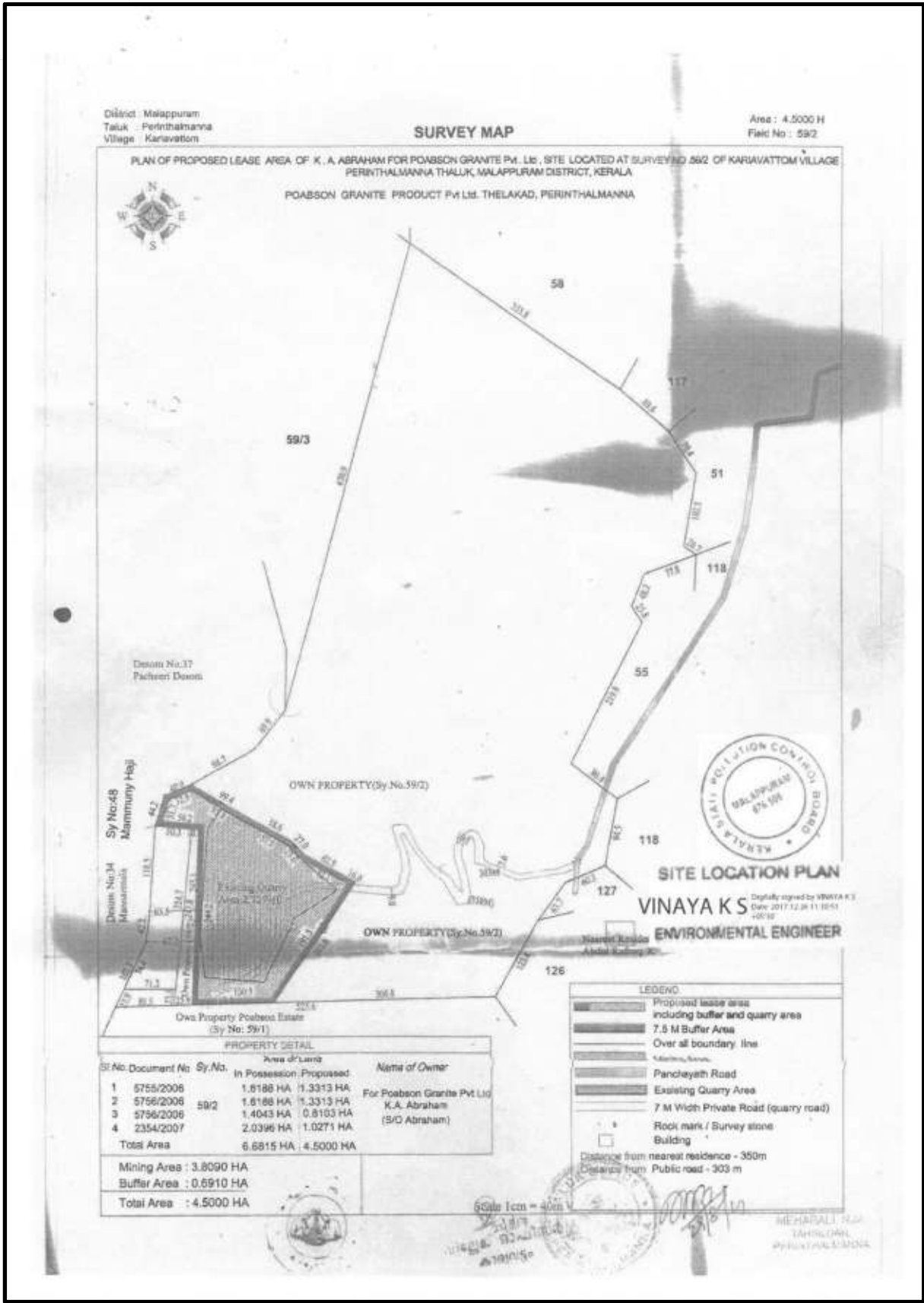
To

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




തീയതി : 27/04/2020

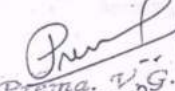
ലൈസൻസ് നമ്പർ : ബി-1-772/20/2020-21 - 3

വെട്ടത്തൂർ ഗ്രാമപഞ്ചായത്തിൽനിന്നും
 1994ലെ കേരള പഞ്ചായത്ത് രാജ് ആക്ട് (1994ലെ 13) 232, 233, 234, 254 എന്നീ വകുപ്പുകളും
 അതേ തുടർന്നുള്ള ചട്ടങ്ങളും അനുസരിച്ച്
 ഫാക്ടറികൾ, വ്യാപാരങ്ങൾ, സംരംഭങ്ങൾ, മറ്റു സേവനങ്ങൾ എന്നിവയ്ക്കായി നൽകുന്ന

ലൈസൻസ്

ലൈസൻസിയുടെ പേരും മേൽവിലാസവും	കെ.എ. എബ്രഹാം, പോബ്സൺ ഗ്രാനൈറ്റ്സ് പ്രൈവറ്റ് ലിമിറ്റഡ്, തേലക്കാട് (പി.ഒ)	
സ്ഥാപനത്തിന്റെ പേരും സ്ഥലനാമവും	പോബ്സൺ ഗ്രാനൈറ്റ്സ് പ്രൈവറ്റ് ലിമിറ്റഡ്	
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	200HP ഉപയോഗിച്ച് ഖനനം നടത്തുന്നതിന്	
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡ് നമ്പരും	12 / 149	
ലൈസൻസ് കാലയളവ്	01-04-2020 മുതൽ 31-03-2025 വരെ	
ഈടാക്കിയ ലൈസൻസ് ഫീസ്	20,000 + 10,000/- രൂപ	രസീത് നമ്പർ 119040500131 തീയതി 24-02-2020
	തൊഴിൽക്കരം	
ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരാക്ഷേപപത്രങ്ങളുടെ വിശദാംശങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാരസ്ഥാനം)	1. വാടകക്കരാർ/സമ്മതപത്രം 2. മലിനീകരണനിയന്ത്രണ ബോർഡിൽനിന്നുള്ള അനുമതി ... 6964495,30/06/2023 ... 04-05-2018 3. പ്ലാസ്റ്റിക് നിരോധനം, സ്ഥലനാമം എന്നിവ സംബന്ധിച്ച സത്യവാങ്മൂലം 4. ജില്ലാ കളക്ടറുടെ / ചീഫ് കൺട്രോളർ ഓഫ് എക്സ്പ്ലോസിവിന്റെ അനുവാദപത്രം ... E8569, 31/03/2025 ... 19- 02-2020 5. സ്റ്റേറ്റ് എൻവയൺമെന്റൽ ഇംപാക്ട് അസസ്മെന്റ് അതോറിറ്റിയുടെ അനുമതി ... 50/2017,15/08/2022 ... 16-08-2017	




 Prem V.
 സെക്രട്ടറി
 വെട്ടത്തൂർ ഗ്രാമപഞ്ചായത്ത്
 Thelakkad P.O., Malappuram Dt.
 Phone: 04933 245128

ANNEXURE 14


अनुज्ञापित प्ररूप एल. ई.-3 | LICENCE FORM LE-3

(विस्फोटक नियम, 2008 की अनुसूची 4 के भाग 1 के अनुच्छेद 3(क) से (घ) देखिए।)
(See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008)

(ग) उपयोग के लिए एक समय पर वर्ग 1,2,3,4,5 या वर्ग 7 के विस्फोटक या किसी मैगजीन में वर्ग 6 के विस्फोटक रखने के लिए अनुज्ञापित

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

अनुज्ञापित सं. (Licence No.): E/SC/KL/22/10(E8569)
वार्षिक फीस रुपए (Annual Fee Rs): 4200/-



Licence
Photo w

1. Licence is hereby granted to
M/s. POABSON GRANITE PRODUCTS PVT. LTD. (अधिभोगी / Occupier : SHRI K A ABRAHAM), KUTTOOR P.O. THIRUVALLA, PATHANAMTHITTA DISTRICT, KERALA, Town/Village - NILAMBUR, District-MALAPPURAM, State-Kerala, Pincode - 689106

को अनुज्ञापित अनुदत्त की जाती है।

2. अनुज्ञापितधारी की प्रास्थिति | Status of licensee : **Company**

3. अनुज्ञापित निम्नलिखित प्रयोजनों के लिए विधिमान्य है। : possess for use of **Nitrate Mixture, Safety Fuse, Detonators**, - के उपयोग के लिए
Licence is valid only for the following purpose.

4. अनुज्ञापित विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमान्य है।
Licence is valid for the following kinds and quantity of explosives -- (क) (a)

क्र. Sr. No.	नाम और विवरण Name and Description	वर्ग और प्रभाग Class & Division	उप-प्रभाग Sub-division	मात्रा किसी एक समय में 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.

(ख) किसी एक कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा [अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञापित के लिए] : **10 times as above.**

(b) Quantity of explosives to be purchased in a calendar month applicable for licence under article 3(b) and (c) :

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञापित परिसर की पुष्टि होती है। रेखाचित्र क्र. (Drawing No.) E/SC/KL/22/10 : (E8569)
The licensed premises shall conform to the following drawing(s) : दिनांक (Dated) 12/05/1995

6. अनुज्ञापित परिसर निम्नलिखित पते पर स्थित है। The licensed premises are situated at following address:
Survey No(s). 59/1, ग्राम (Town/Village) : KARYAVATTOM पुलिस थाना (Police Station) : MELATTOOR
जिला (District) **MALAPPURAM** राज्य (State) **Kerala** पिनकोड (Pincode)
दूरभाष (Phone) ई. मेल (E-Mail) फेक्स (Fax)

7. अनुज्ञापित परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं। : **A magazine with a high exp. room and a detonator room**
The licensed premises consist of following facilities.

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

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

9. यह अनुज्ञापित तारीख **31 मार्च 2005** तक विधिमान्य रहेगी। This licence shall remain valid till **31st day of March 2005.**

यह अनुज्ञापित, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपवर्णित इस अनुज्ञापित की शर्तों का अधिक्रमण करने या यदि अनुज्ञापित परिसर योजना या उससे संलग्न उपबंध में दर्शित

विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंहत की जा सकती है, जहां वह लागू हो।

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.

तारीख | The Date - 12/05/1995

Sd/-
संयुक्त मुख्य विस्फोटक नियंत्रक | 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

Transfers :

- Change in Licensee Name/Address/Status dated : 26/09/2017

नवीनीकरण के पृष्ठांकन के लिए स्थान
Space for Endorsement of Renewal

नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature of licensing authority and stamp
19/02/2020	31/03/2025	 Dy. Chief Controller of Explosives, Ernakulam Deputy Chief Controller of Explosives एरनाकुलम Ernakulam

कानूनी चेतावनी : विस्फोटकों को गलत ढंग से चलाने या उनका दुरुपयोग विधि के अधीन गंभीर दंडित अपराध होगा।

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

ANNEXURE 17

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

TIN: 32100752474
 CST: 32100752474-C

Date: 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.

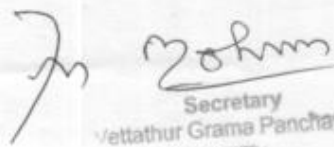
This is in compliance to the condition of the E.C. Order.

Kindly acknowledge the receipt of the same.

Thanking you,

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


 K.A. Abraham,
 (Managing Director)


 Secretary
 Vettathur Grama Panchayath
 Malappuram

Encl: As above

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

ANNEXURE 18



കേരളം കേരल 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 Kutthoor P.O., Thiruvalla, Kera'a - 689 106 do hereby affirm and confirm as follows:-

1. That, Mrs 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. Gokul Chandran, P.O. Thiruvalla,
Advocate & Notary
Register No. 1397/PTA Thiruvalla.

DEPONENT

K.A. Abraham, Managing Director
Poabson Granite Products Pvt Ltd
Kutthoor P.O., Thiruvalla.
40-8/1227 PS. ceot-
7/1/17.





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

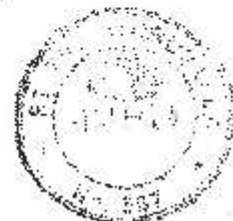
Date: 25/08/2017

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. 1367/2014 Thiruvalla.

10,81228
7/11/17
K.A. Abraham Managing Director
Poabson Granite Products Pvt. Ltd
Kutthoor P.O. Chiruvalla
RS. 100/-



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

Page 01 of 01

Ref.No. PL/RT/SW/590/2021
Name & address of customer

Date of Issue: 29/01/2021
: M/s Poabs Granite Product(P) Ltd
Thelakkad, Perinthalmanna
Malappuram
: M/s Poabs Granite Product(P) Ltd
Sy.No.59/2
Village - Kariavattom
Panchayath- Vettathoor
Taluk-Perinthalmanna
District - Malappuram, Kerala

Project Site

Sample drawn by
Sample description
Location of sampling
Date of sample collected
Date of analysis started
Date of completion of analysis

: Poluchem Laboratory Sample Collector
: Water Sample
: Surface Water
: 24/01/2021
: 24/01/2021
: 28/01/2021

Parameters tested	Test method	Results	Acceptable Limit As Per IS 10560-2012
Color	IS 3025 (P) 04 – 1983 RA2017	9Hazen Unit	5 Hazen Unit
Odour	IS 3025 (P) 05 – 1983 RA2017	Agreeable	Agreeable
Turbidity	IS 3025 (P) 10 – 1984 RA2017	2 NTU	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	89 mg/l	500 mg/l
Total Hardness as CaCO ₃	IS 3025 (P) 21 – 1983 RA2014	34.2 mg/l	200 mg/l
Total Alkalinity as CaCO ₃	IS 3025 (P) 23 – 1986 RA2014	21.6 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	21.3 mg/l	250 mg/l
Calcium as Ca	IS 3025 (P) 40 – 1991 RA2014	7.41 mg/l	75 mg/l
Magnesium as Mg	IS 3025 (P) 46 – 1994 RA2014	2.65 mg/l	30 mg/l
Total Iron as Fe	IS 3025 (P) 53 – 2003 RA2014	0.65 mg/l	1 mg/l
Sulphate as SO ₄	IS 3025 (P) 24 – 1986 RA2009	8.7 mg/l	200 mg/l
Fluoride as F	IS 3025 (P) 60 -2008 RA 2013	BDL	1.0 mg/l
Biochemical Oxygen Demand (3 days at 27 ^o C)	IS 3025 (P) 44 – 1993RA 2014	2.6mg/l	--
Chemical Oxygen Demand	IS 3025 (P) 58 – 2006 RA2017	18 mg/l	--
Dissolved Oxygen	IS 3025 (P) 44 – 1989RA 2014	5.2 mg/l	--
Zinc as Zn	IS 3025 (P)49 – 1994 RA2014	BDL	5 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
Lead as Pb	IS 3025(P) 47– 1994 RA2014	BDL	0.01 mg/l
Coliforms(MPN/100ml)	IS 1622: 1981 RA 2009	110	Absent
Ecoli (Present or Absent/100ml)	IS 1622: 1981 RA 2009	Absent	Absent

Note : BDL – Below Detection Level

For Poluchem Laboratories (P) Ltd.

* End of the report*

SREEDHAR KANESH
QUALITY MANAGER

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

Ref.No. PL/RT/OW/589/2021
Name & address of customer

Date of Issue: 29/01/2021
: M/s Poabs Granite Product(P) Ltd
Thelakkad, Perinthalmanna
Malappuram
: M/s Poabs Granite Product(P) Ltd
Sy.No.59/2
Village - Kariavattom
Panchayath- Vettathoor
Taluk-Perinthalmanna
District - Malappuram, Kerala

Project Site

Sample drawn by
Sample description
Location of sampling
Date of sample collected
Date of analysis started
Date of completion of analysis

: Poluchem Laboratory Sample Collector
: Drinking Water
: Open Well Water
: 24/01/2021
: 24/01/2021
: 28/01/2021

Parameters tested	Test method	Results	Acceptable Limit As Per IS 10500-2012
Color	IS 3025 (P) 04 – 1983 RA2017	6 Hazen Unit	5 Hazen Unit
Odour	IS 3025 (P) 05 – 1983 RA2017	Agreeable	Agreeable
Turbidity	IS 3025 (P) 10 – 1984 RA2017	1 NTU	1 NTU
pH	IS 3025 (P) 11 – 1983 RA 2017	6.54	6.5 – 8.5
Total Dissolved Solids	IS 3025 (P) 16 – 1984 RA2017	74 mg/l	500 mg/l
Total Hardness as CaCO ₃	IS 3025 (P) 21 – 1983 RA2014	20.6 mg/l	200 mg/l
Total Alkalinity as CaCO ₃	IS 3025 (P) 23 – 1986 RA2014	21.3 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	18.5 mg/l	250 mg/l
Calcium as Ca	IS 3025 (P) 40 – 1991 RA2014	4.1 mg/l	75 mg/l
Magnesium as Mg	IS 3025 (P) 46 – 1994 RA2014	1.6 mg/l	30 mg/l
Total Iron as Fe	IS 3025 (P) 53 – 2003 RA2014	0.34 mg/l	1 mg/l
Sulphate as SO ₄	IS 3025 (P) 24 – 1986 RA2009	13.4 mg/l	200 mg/l
Fluoride as F	IS 3025 (P) 60 -2008 RA 2013	0.25 mg/l	1.0 mg/l
Zinc as Zn	IS 3025 (P) 49 – 1994 RA2014	BDL	5 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
Lead as Pb	IS 3025(P) 47– 1994 RA2014	BDL	0.01 mg/l
Coliforms(MPN/100ml)	IS 1622: 1981 RA 2009	50	Absent
Ecoli (Present or Absent/100ml)	IS 1622: 1981 RA 2009	Absent	Absent

Note : BDL – Below Detection Level

For Poluchem Laboratories (P) Ltd.

* End of the report*

Authorized signatory

SREEJA RAJESH

QUALITY MANAGER

POLUCHEM LABORATORIES (P) LTD.

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TEST REPORT


Page 01 of 01

Client Name & Address	Certificate No:	PL/AMB/RT/587/2021
M/s Poabs Granite Product(P) Ltd Thelakkad, Perinthalmanna Malappuram	Date of issue:	29/01/2021
	Date of monitoring	22/01/2021 10.00 Hrs to 23/01/2021 10.00 Hrs
	Date of sample received:	24/01/2021
	Date of analysis	24/01/2021
	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)	IS 5182 Part 23 2006 RA 2012	62.3 µg/m ³	100 µg/m ³
02	Particulate Matter (PM _{2.5})	CPCB	29.8 µg/m ³	60 µg/m ³
03	Sulphur dioxide	IS 5182 Part 2 2001 RA 2017	8.4 µg/m ³	80 µg/m ³
04	Nitrogen dioxide	IS 5182 Part 06 2006 RA 2017	5.6 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	<p>For and on behalf of POLUCHEM LABORATORIES (P) LTD.</p>  <p>AUTHORIZED SIGNATORY SREEJA RAMESH QUALITY MANAGER POLUCHEM LABORATORIES (P) LTD.</p>
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TEST REPORT

Page 01 of 01

Client Name & Address M/s Poabs Granite Product(P) Ltd Thelakkad, Perinthalmanna Malappuram.	Certificate No:	PL/RT/SD/588/2021	
	Date of issue:	29/01/2021	
	Date of monitoring	22/01/2021 - 23/01/2021	
	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 Sound Level -East Side	
HOURLY INTERVAL	RESULT	HOURLY INTERVAL	RESULT
06.00 AM-07.00 AM	39.5 dB (A)	11.00 PM-12.00AM	39.4 dB (A)
07.00 AM- 08.00 AM	47.6 dB (A)	12.00 AM-01.00 AM	38.6 dB (A)
08.00 AM- 09.00 AM	49.8 dB (A)	01.00 AM- 02.00 AM	35.1 dB (A)
09.00 AM -10.00 AM	52.1 dB (A)	02.00 AM-03.00 AM	34.3 dB (A)
10.00 AM-11.00 AM	54.2 dB (A)	03.00 AM-04.00 AM	36.6 dB (A)
11.00 AM-12.00 PM	52.3 dB (A)	04.00 AM -05.00 AM	35.2 dB (A)
12.00 PM-01.00 PM	51.3 dB (A)	05.00 AM-06.00AM	38.9 dB (A)
01.00 PM-02.00 PM	50.2 dB (A)		
02.00 PM-03.00 PM	53.6 dB (A)		
03.00 PM-04.00 PM	52.4 dB (A)		
04.00 PM-05.00 PM	50.1 dB (A)		
05.00 PM-06.00 PM	49.8dB (A)		
06.00 PM-07.00 PM	48.4 dB (A)		
07.00 PM-08.00 PM	45.2 dB (A)		
08.00 PM-09.00 PM	44.1 dB (A)		
09.00 PM-10.00 PM	42.3 dB (A)	LDay	54.2 dB (A)
10.00 PM-11.00 PM	40.1 dB (A)	LNight	36.2 dB (A)

Limits: Industrial Area Day Time-75dB(A),Night Time- 70dB(A),Commercial area Day Time -65 dB(A),Night Time 55dB(A), Residential area Day Time -55 dB(A),Night Time -45dB(A),Silence zone day time-50dB(A),Night time-40dB(A)
Day Time from 06.00 am to 10.00 pm & Night Time from 10.00 pm to 06.00 am

*End of the Report *

For Poluchem Laboratories (P) Ltd.

Authorized Signatory
SREEJA RAMESH
QUALITY MANAGER
POLUCHEM LABORATORIES (P) LTD.