

**COMPLIANCE REPORT TO THE CONDITIONS
OF**

ENVIRONMENTAL CLEARANCE ORDER

NO: 1071 (A)/EC1/2016/SEIAA Dated 15-03-2018

BY

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA)

FOR QUARRY PROJECT

AT

**Sy. Nos. 459/1-1pt., 459/2, 460/10, 12, 460/2-1pt., 460/2-2, 461/4,
461/1, 462/1pt., 462/2, 462/3, 446/4pt., 446/7pt., 446/8pt., 462/5,
461/2, 461/3, 447/3, 2pt., 448/3pt., 2, 1pt., 452/5pt., 452/4, 6, 7, 8 OF
PEROORKADA VILLAGE, THIRUVANANTHAPURAM TALUK,
THIRUVANANTHAPURAM DISTRICT, KERALA**

BY

POABS GRANITES PRIVATE LIMITED

KUTHIRAKALAM P.O., TRIVANDRUM, KERALA – 695 543

April 2019 – September 2019

INTRODUCTION

M/s Poabs Granites Pvt. Ltd. is running a stone quarry situated at Sy. Nos. 459/1-1pt., 459/2, 460/10, 12, 460/2-1pt., 460/2-2, 461/4, 461/1, 462/1pt., 462/2, 462/3, 446/4pt., 446/7pt., 446/8pt., 462/5, 461/2, 461/3, 447/3, 2pt., 448/3pt., 2, 1pt., 452/5pt., 452/4, 6, 7, 8 of Peroorkada Village, Thiruvananthapuram District and Taluk, Kerala. The quarry project is running according to the environmental clearance order by state Environmental Impact Assessment Authority on 15-03-18. Six month compliance reports to the conditions of the environmental clearance are to be submitted as part of compliance. Third Half yearly Compliance Report to the specific and general conditions of the environmental clearance for the period of April 2019 - September, 2019 is being submitted.

PART A – SPECIFIC CONDITIONS

➤ **Condition 1**

The abandoned pit on the western part to be developed as a Rainwater harvesting pond

✓ **Compliance**

We have designed the abandoned pit on the western part as Rainwater harvesting pond. The pond is developed by earthen wall strengthened by geotextiles. Collected water is using for sprinkling purposes. Photograph showing the same is attached as Annexure A.

➤ **Condition 2**

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**

We are properly protecting the plant species that are endemic to Western Ghats in situ or by transplanting to an appropriate location. We also plan to develop a plant Nursery for plant species that are endemic to Western Ghats.

PART B – GENERAL CONDITIONS

➤ Condition 1

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

✓ Compliance

We have provided rainwater harvesting systems in the project site. The System consists of three tanks constructed with stone masonry wall having the capacity of 190000, 144000 and 360000 liters. Photographs of the rainwater harvesting system are 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	Tank constructed with stone masonry wall 1	20	6	2	190000
2	Tank constructed with stone masonry wall 2	12	6	2	144000
3	Tank constructed with stone masonry wall 3	15	6	4	360000

➤ 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 has formed with Mr. Jabu K. Abraham (Director) as head of the monitoring cell and made functional. Meeting of the monitoring cell is arranging monthly and discuss the status of the compliance of the specific and general conditions

mentioned 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 (Director)	Mr. Jabu K. 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	Mr. Anil kumar. M.
6	Name of the officer Environment, Health and safety	Mr. Vswanathappa
7	Name of the Asst. officer of Environment, Health and safety	Mr. Ravisankar
8	Name of the environmental consultant	M/s Enkay Enviro Services Pvt. Ltd. & M/s Environmental Engineers & Consultants Pvt. Ltd
9	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**

Appropriate avenue trees are planted along either side of the tarred road and, open parking areas, counting approach road and internal roads. Photographs showing the same is provided at Annexure No. 2. Plant saplings maintained in the nursery for roadsides and parking areas as follows.

Sl. No.	Botanical Name	Common Name	Family	Distribution	Status
1	<i>Mangifera indica</i> L.	Mavu	Anacardiaceae	Evergreen and semi-evergreen forests and also widely cultivated	Indo-Malaysia
2	<i>Cassia fistula</i> L.	Indian Laburnum/ Kanikkonna	Fabaceae		Indo-Malesia
3	<i>Artocarpus heterophyllus</i> Lam.	Plavu	Moraceae	Evergreen and semi-evergreen forests, also widely cultivated	Widely cultivated in the tropics, origin is probably South India
4	<i>Acacia auriculiformis</i> Benth.	Acacia	Leguminosae	Native of Tropical Australia	Exotic

➤ Condition 4

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

✓ Compliance

We have provided solar energy devices such as solar lights and solar water heater in the project area in connection with the Present project. Solar water heater and biogas plant are associated with canteen and are using for kitchen purposes. Solar lights were installed in different locations of the project area. Photograph showing the same is enclosed as Annexure 3.

➤ **Condition 5**

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

✓ **Compliance**

For the suppression of dust during drilling and blasting, we adopted wet sack method for drilling. For the dust generated during Crushing & Screening operation, company has installed fixed water sprinkling systems in the Crushing units. The road system of the project site, approached road and other connected roads has been watering daily by sprinkler system installed in tipper lorry since the starting of the project. Photographs of the sprinkling system 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 closure of the present mine, ten percent of the excavated 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. Eco-restoration comprising the mine closure plan will implement at our own cost. As part of the same, we have stored the top soil and overburden in a prefixed area.

➤ **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**

After the closure of the mine, ten percent of the excavated pit area will retain as water storage area. It is planned 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 carried out by the company are: medical aid, marriage support, material supply for house constructions/maintenance, public road maintenance, water supply 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.) has protected. We have installed barbed metal wire fencing around the mining area with a height of 4ft to prevent falling of animals/human/belongings/dumping of garbage's etc. Photographs of the same is enclosed as Annexure 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**

In connection with the present project we provided warning alarm in the project site and maintaining properly. A danger board indicating blasting time has installed in the project site. The blasting time has fixed and is between 1.00pm and 2.00pm. Photograph showing the same is enclosed as Annexure 6.

➤ **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.**

- ❖ **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**

Mining activities and related goings-on limited to day time only as per KSPCB guidelines/specific conditions.

➤ **Condition 13**

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

✓ **Compliance**

Blasting

- ❖ **The controlled blasting is carrying out 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 will be 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 using. 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 person is supervising the blasting operations. Copy of the certificates of licensed persons are attached as Annexure 6a

➤ **Condition 15**

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

✓ **Compliance**

Entree road to the mine 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 and overburden has been storing in a prefixed location for the reclamation of mine pit as per mine closure plan. The photographs showing the same is given in 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**

Quarrying process is carrying out in the practice 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 has provided. 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. We are also using NONEL shock tubes for blasting process.

➤ **Condition 19**

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

✓ **Compliance**

Concerning the current quarrying project, the excavation of mineral is from 130-50m MSL in conceptual phase. 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 activities 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 noise level is limiting within the prescribed standards given by CPCB/KSPCB. The entire mining area has covered by thick green belt and this will reduce sound amplifications produced during mining activities. Sound monitoring report is attached as Annexure 10.

➤ **Condition 22**

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

✓ **Compliance**

In the project area, workers are provided with personal protective devices such as earmuffs, ear plugs, helmet etc. at the site.

➤ **Condition 23**

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

✓ **Compliance**

Company has provided garland drains with clarifiers in the lower slopes around the core area to channelize storm water. The photograph showing the Garland drains with clarifiers is enclosed as Annexure 11.

➤ **Condition 24**

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

✓ **Compliance**

All trucks are covered with tarpaulin sheets after loading to control dust emissions during transportation. 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**

We have been planting trees 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 is 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 12.

➤ **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**

No forest boundary near to the project area

➤ **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 13.

➤ **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 statutory approvals required for the quarrying activity is obtained for the project. The details regarding the same along with the copy of the statutory approvals are enclosed as Annexure 14 and 15. Details of statutory approvals are given below.

Sl. No.	Annexure	Statutory approvals
1	14	License from Panchayat
2	15	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**

Would be complied.

➤ **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**

Would be complied.

➤ **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**

About 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. Details of the newspaper advertisements are given below.

Sl. No.	Annexure	Name of the Newspaper and edition	Dated
1	16	New Indian Express	29/03/2018
2	17	Mathrubhumi	29/03/2018

➤ **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 Thiruvananthapuram Corporation Office. The acknowledgement received is provided at Annexure 18. 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**

Third 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 font 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. Copy of the same is enclosed as Annexure 19.

➤ **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**

Water sprinkling has installed at places via loading and unloading points and transfer points to reduce fugitive emission. 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. Ambient Air Quality monitoring Report is attached as Annexure 20.

➤ **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 project team is storing the overburden and topsoil generated during the mining operation in an earmarked area. The maximum height of the dump are maintain below 8m and width 20m and overall slope of the dump will be maintained to 45°. The O.B. dump will be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, we will use geo textiles undertaken for the stabilization of the dump. 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 with checks and siltation ponds of appropriate site has 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 are utilizing for watering the

mine area, roads, green belt development etc. The drains are regularly desilting particularly after monsoon and maintained properly.

➤ **Condition 45**

Effective safe guard measures such as regular water sprinkling shall be carried out in critical areas porm to air pollution and having high levels of PM₁₀ and PM₂₅ such as haul road loading and uploading 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**

Sufficient safe guard measures such as regular water sprinkling are carrying out in critical areas porm to air pollution and having high levels of PM₁₀ and PM₂₅ such as haul road loading and uploading points and transfer points. It will be 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**

Diverse measures are taking for the control of noise level below 85 DBA in the work environment. We will also check 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 diverted 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**

We will obtain necessary prior permission of the competent authorities for withdrawal of requisite quantity of surface water and ground water for the project.

➤ **Condition 60**

Regular monitoring of flow rates and water quality upstream and downstream 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 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**

The Company 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 A

ANNEXURE 1

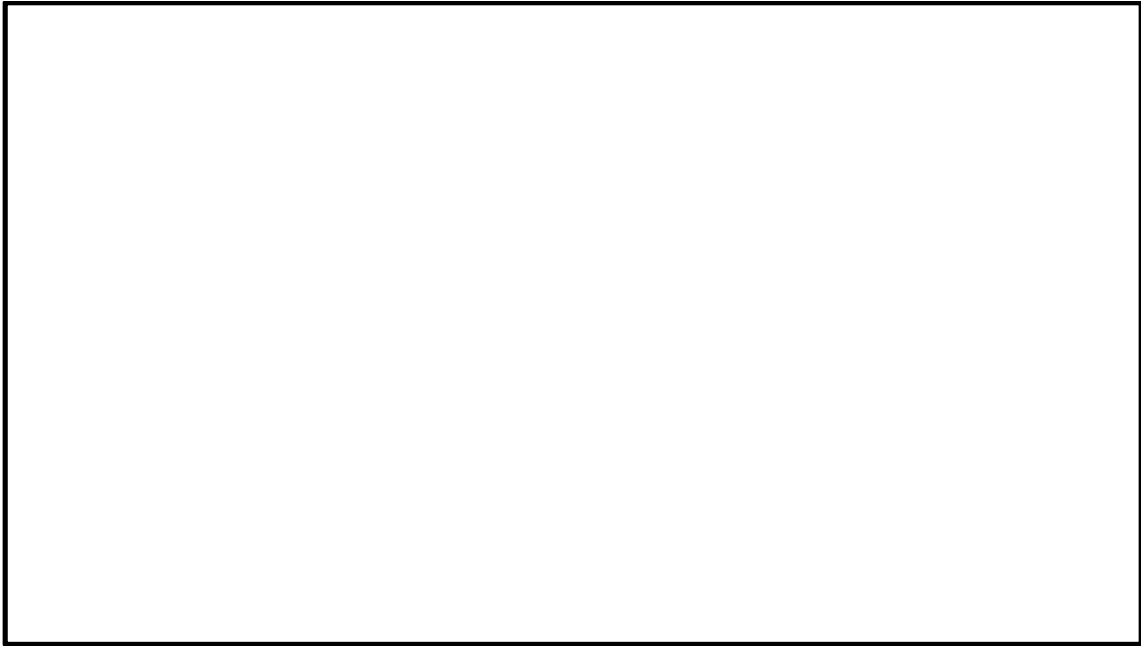
Photographs showing the rainwater harvesting system in the project area

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 provided in the site

ANNEXURE 5

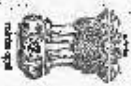
Photograph showing the metal wire fencing and indicators boards

ANNEXURE 6



Photograph showing the danger board indicating blasting time AND Warning alarm installed in the project site

ANNEXURE 6A


 राज कौशिक, 1952
 THE MINES ACT 1952

(Under the Metalliferous Mines Regulations 1961)
 (वेनक विनय शक्ति केर खानो केर तीसरी)
 (Reserve to mines having open cast workings only)
ए. वी. विरवनाथ

प्रथम श्रेणी प्रथमक सक्षमता प्रमाण-पत्र प्राप्तकर्ताक खान के प्रथम हेतु
MANAGER'S FIRST CLASS CERTIFICATE OF COMPETENCY TO MANAGE A METAL LIFEROUS MINE
 प्रदान किया जाता है। यह प्रमाण-पत्र
 02.04.2005


जिसको प्रथम दिनांक 04.06.1964 है, जिसका 18 के अन्तर्गत अनुमोदित करण अ. प्रमाणिकी में मिलाना प्राप्त करने पर एवं दिनांक 2007
 की आगोशित विहित परीक्षा में उत्तीर्ण होने पर एन.एच.ए. के प्रथम श्रेणी प्रथमक सक्षमता प्रमाण-पत्र
 प्रदान किया जाता है। यह प्रमाण-पत्र
 02.04.2005

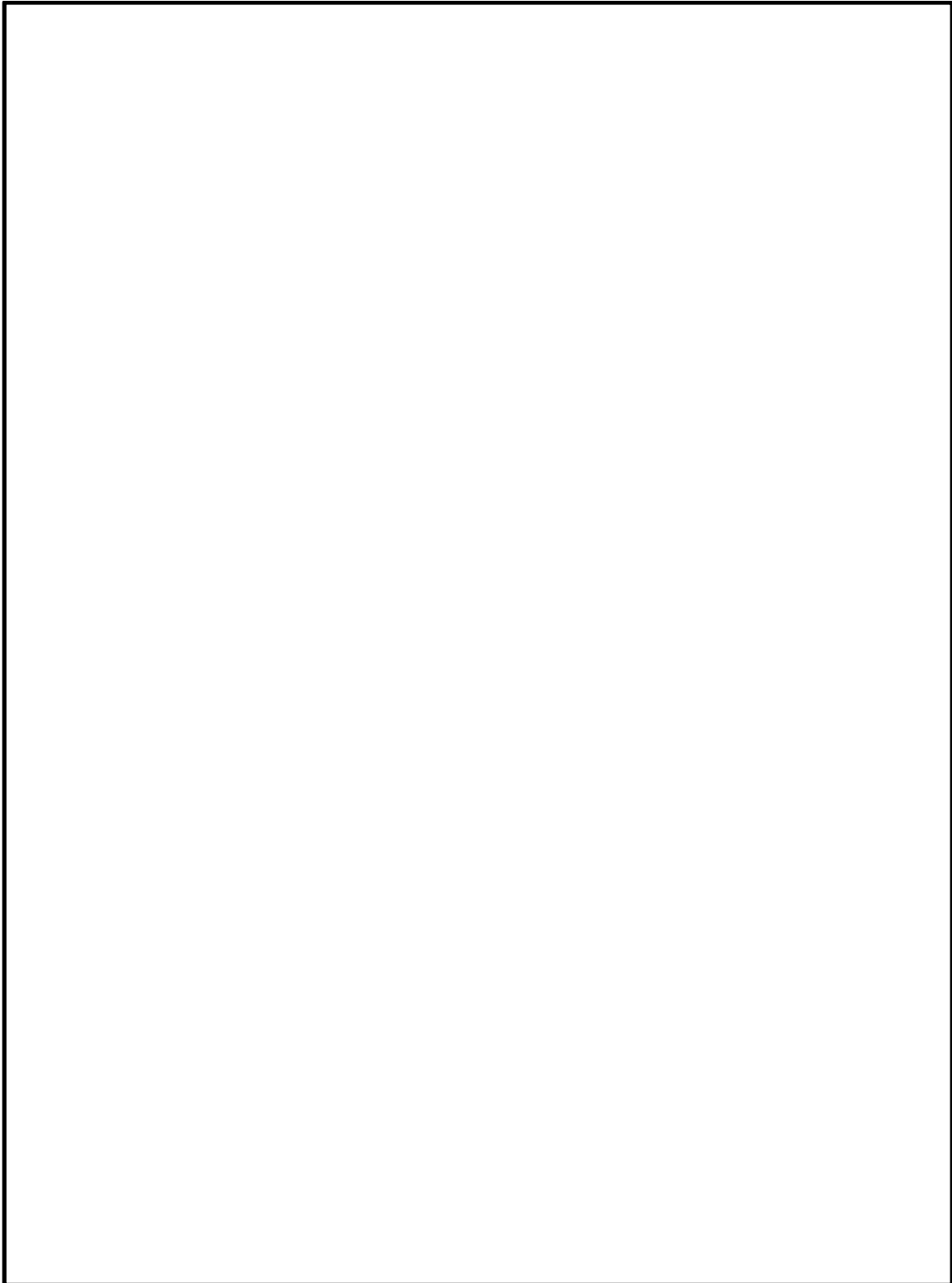
ए. वी. विरवनाथ
 possessing a Diploma
 in Mining Engineering approved under Regulation 18 and having passed the prescribed examination, held on
 September, 2007 is hereby granted MANAGER'S FIRST CLASS CERTIFICATE OF COMPETENCY to manage
 a metalliferous mine having open cast workings only. This Certificate is effective from 02.04.2005

सदस्य
 खान प्रयोगशाला बोर्ड
 Members of the Board of
 Mining Examinations

प्रमुख
 खान प्रयोगशाला बोर्ड
 Chairman of the Board of
 Mining Examinations

Signed and Sealed
 Date: 08/10/2005


 A. V. Viravanna
 Manager's First Class Certificate of Competency to Manage a Metal Liferous Mine



ANNEXURE 7

Photograph showing the tarred/Brick paving access road to the quarry

ANNEXURE 8

Photographs showing top soil and Overburden storage area

ANNEXURE 9

Photograph showing the Bench Type Mining

ANNEXURE 10

**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

ACCREDITED BY KSPCB AS "A" GRADE LABORATORY

TEST REPORT

Page 01 of 01

Client Name & Address M/s Poabs Granites Pvt. Ltd Peeroorkada , Trivandrum.	Certificate No:	PL/AMB/RT/7331/2019
	Date of issue:	20/05/2019
	Date of monitoring	15/05/2019 10.00 Hrs to 16/05/2019 10.00 Hrs
	Date of sample received:	16/05/2019
	Date of analysis	17/05/2019
	Monitoring Location	M/s. Poabs Granites Pvt Ltd. Sy.No.459/2,460/10,460/12,446/8,462/5,461/2, 461/3,446/7,460/2-2,460/2-1, Village - Peeroorkada, Taluk-Trivandrum, District - Trivandrum,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	56.3 µg/m ³	100 µg/m ³
02	Particulate Matter (PM _{2.5})	CPCB	34.2 µg/m ³	60 µg/m ³
03	Sulphur dioxide	I S 5182 Part 2 2001 RA 2017	9.5µg/m ³	80 µg/m ³
04	Nitrogen dioxide	IS 5182 Part 06 2006 RA2017	6.5 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 RAMESH
Quality Manager
Poluchem Laboratories (P) Ltd.



POLUCHEM LABORATORIES (P) LTD.

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

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TEST REPORT

Page 01 of 01

Client Name & Address	Certificate No:	PL/RT/SD/7332/2019
	Date of issue:	20/05/2019
	Date of monitoring	15/05/2019 10.00 Hrs to 16/05/2019 10.00 Hrs
M/s Poabs Granites Pvt. Ltd Peeroorkada, Trivandrum.	Monitoring Location	M/s. Poabs Granites Pvt Ltd. Sy.No.459/2,460/10,460/12,446/8,462/5,461/2, 461/3,446/7,460/2-2,460/2-1, Village - Peeroorkada, Taluk-Trivandrum, District - Trivandrum,Kerala
	Sample Description	Ambient Sound Level (Leq)
Monitoring Location	Time	Results
East side boundary	10.00 Hrs	51.3 dB (A)
	11.00 Hrs	50.2 dB (A)
	12.00 Hrs	49.8 dB (A)
	13.00 Hrs	48.6 dB (A)
	14.00 Hrs	47.4 dB (A)
	15.00 Hrs	46.3dB (A)
	16.00 Hrs	45.4 dB (A)
	17.00 Hrs	44.2dB (A)
	18.00 Hrs	43.2dB (A)
	19.00 Hrs	42.1 dB (A)
	20.00 Hrs	41.3 dB (A)
	21.00 Hrs	39.2 dB (A)
	22.00 Hrs	38.4 dB (A)
	23.00 Hrs	38.2 dB (A)
	00.00 Hrs	37.3 dB (A)
	01.00 Hrs	36.2 dB (A)
	02.00 Hrs	37.4 dB (A)
	03.00 Hrs	39.6 dB (A)
	04.00 Hrs	40.2 dB (A)
	05.00 Hrs	41.3 dB (A)
	06.00 Hrs	42.6 dB (A)
	07.00 Hrs	46.3 dB (A)
	08.00 Hrs	46.4 dB (A)
	09.00 Hrs	49.6 dB (A)
Leq (Day time)		49.2 dB (A)
Leq (Night time)		35.4 dB (A)

*End of the Report *

For Poluchem Laboratories (P) Ltd.

Authorized Signatory

SREEJA RAMESH
Quality Manager
Poluchem Laboratories (P) Ltd.



POLUCHEM LABORATORIES (P) LTD.

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

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TEST REPORT

Page 01 of 02

Ref.No. PL/RT/SW/7033/2019

Date of Issue: 20/05/2019

Name & address of customer

: M/s Poabs Granites Pvt. Ltd
Peeroorkada, Trivandrum.

Project Site

: M/s. Poabs Granites Pvt Ltd.
Sy.No.459/2,460/10,460/12,446/8,462/5,461/2,
461/3,446/7,460/2-2,460/2-1,
Village - Peeroorkada,
Taluk-Trivandrum,
District - Trivandrum,Kerala

Sample drawn by

: Poluchem Laboratory Sample Collector

Sample description

: Water Sample

Location of sampling

: Pond Water

Date of sample collected

: 16/05/2019

Date of analysis started

: 17/05/2019

Date of completion of analysis

: 20/05/2019

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	6.97	6.5 - 8.5
Total Dissolved Solids	IS 3025 (P) 16 - 1984 RA2017	58 mg/l	500 mg/l
Total Hardness as CaCO ₃	IS 3025 (P) 21 - 1983 RA2014	24.3 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	21.4 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	4.13 mg/l	30 mg/l
Total Iron as Fe	IS 3025 (P) 53 - 2003 RA2014	0.25 mg/l	0.3 mg/l
Sulphate as SO ₄	IS 3025 (P) 24 - 1986 RA2009	14.3 mg/l	200 mg/l
Fluoride as F	IS 3025 (P) 60 - 2008 RA 2013	BDL	1.0 mg/l

Note : BDL - Below Detection Level

For Poluchem Laboratories (P) Ltd.

Authorized signatory

SREEJA
Quality Manager
Poluchem Laboratories (P) Ltd.



POLUCHEM LABORATORIES (P) LTD.

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Page 02 of 02

Continuation of Test Certificate No: 7033/2019

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	110	Absent
E coli	Present or Absent/100ml	IS 1622: 1981 RA 2009	Absent	Absent

For Poluchem Laboratories (P) Ltd.

Authorized signatory

SREEJA K. S.

Quality Manager

Poluchem Laboratories (P) Ltd.

* 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.

ANNEXURE 11**Photographs showing garland drains**

ANNEXURE 12

Photograph showing the Explosives magazines built in an isolated area

ANNEXURE 13



KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB /TVM -DO / CO / 6424/2007
Date of issue :02/03/2017

INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No : PCB/TVM-DO/ICO(R)/ 6424/ 2007

Ref : Consent No. PCB/TVM-DO/ICO-QRY/1495/ 2011 DATED 04.08.2011

The ' Integrated Consent to Operate' issued as per reference above to M/s Poabs Granites (P) Ltd Malamugal, Vattiyookavu P.O Trivandrum is hereby renewed up to 31/01/2020 and issued to M/s Poabs Granites (P) Ltd Malamugal, Vattiyookavu P.O Trivandrum The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

I. GENERAL

S.No.	Items	Description
1	FEE REMITTED	52500/-

II. Stack Details

Stack No.	Source of Emission	Emission Rate(Nm ³ /Hr)	Stack Height above		Control Equipment
			Ground Level(In Meters)	Roof Level(In Meters)	

III. CONDITIONS

5.1) Quarrying area is restricted to the land having EC in survey nos. 459/2,460/10,460/12,446/8, 462/5,461/2,461/3,446/7,46 0/2-2,460/2-1

5.2) Any order passed by the Hon'ble Supreme Court, Hon'ble High Court, Hon'ble National Green Tribunal in the matter of quarrying, this order will become invalid immediately on the basis of the above mentioned order/judgment.

5.3) Any Government Order passed in the matter of quarrying by the Central Government, State Government & Pollution Control Board, this order will become invalid immediately.

5.4) This Consent to Operate is issued only in accordance with norms and parameters of the Board as per the

Page 1

An (Prevention & Control of Pollution) Act, 1981 and is not a permit license to carry out mining operations quarrying operation. Permit license for mining quarrying operation shall be obtained from competent authorities before quarrying.

5.5) This order is issued based on pollution control purpose and necessary orders/licenses/clearances shall be obtained for quarrying from appropriate authorities. If required the consentee shall produce Environmental Clearance (EC) to the appropriate authorities.

5.6) Regular wetting of the roads in the premises of the quarry and approach roads near the quarry shall be done for avoiding dust emission within and outside the boundary.

5.7) This consent is valid only for a period during the period when and other statutory or necessary clearance from other concerned authorities are valid.

5.8) The sound level (Leq) at 1m outside the boundary of the site should not exceed the ambient noise standard applicable to the adjacent area.

5.9) The PM₁₀ in the ambient air at the boundary shall not exceeds 100 microgram/m³.

5.10) The PM_{2.5} in the ambient air at the boundary shall not exceeds 60 microgram/m³.

5.11) Fencing shall be provided in the quarrying area.

5.12) It is the responsibility of occupier to ensure that quarrying activities are restricted to a distance more than 100 m from the nearby residences and public roads having vehicular traffic.

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

DATE :02/03/2017

Bindu V. Gopal
SIGNATURE & SEAL OF ISSUING AUTHORITY



BINDU. V. GOPAL
Environmental Engineer

To

Poabs Granites (P) Ltd
Malamugal, Vattiyoorkavu P.O Trivandrum



Copy to : CEE, RO, TUPM



KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/TVM-DO/CO/6424/2007

Date of issue :02/02/2019

INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No : PCB/TVM-DO/ICO(R)/QRY-121 /2019

Ref : 1.Your Application No.9895750 Date:30/01/2019

2.Consent No: PCB/TVM-DO/ICO(R)/QRY/300/2018 Date:28/03/2018

The ' Integrated Consent to Operate' issued as per reference above to M/s Poabs Granites (P) Ltd, Malamugal, Vattiyoorkavu P.O Trivandrum is hereby renewed up to 30/03/2021 and issued to M/s Poabs Granites (P) Ltd, Malamugal, Vattiyoorkavu P.O Trivandrum The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

I. GENERAL

S.No.	Items	Description
1	1.1 Validity	30/03/2021
2	1.2 Category	Red
3	1.3.Capital Investment	Rs.397.87 Lakhs
4	1.4.Annual Fees	Rs.35000/-
5	1.5 Fee Remitted	Rs.73275/-
6	1.6 Survey nos:	461/4,461/1,462/1pt,462/2,462/3,446/4 pt
7	1.7 Product Details (per day)	Rock Quarrying @2500 Metric Tonnes per day

II. Stack Details

Stack No.	Source of Emission	Emission Rate(Nm3/Hr)	Stack Height above		Control Equipment
			Ground Level(In Meters)	Roof Level(In Meters)	

III. CONDITIONS

- 5.1 Quarrying is restricted for the land bearing Sy nos:461/4,461/1,462/1pt,462/2,462/3,446/4 pt.
- 5.2 This consent is granted subject to the power of the Board to review and make variations in all or any of the conditions as per section 21 of the Air (Prevention and Control of Pollution) Act 1981 and section 25 of the Water (Prevention and Control of pollution) Act 1974.
- 5.3 Any change in the particulars furnished in the references and/or in the identity of the occupier / authorized agent shall be intimated to the Board within a week.
- 5.4 It is the responsibility of occupier to ensure that quarrying activities are restricted to only area shown in the attached drawing and at a distance more than 50 m from the nearby residential buildings, places of worship, public buildings, public road having vehicular traffic, river or lake, railway line and bridges.
- 5.5 After excavation at the site is completed, the land may be reclaimed or used for rain water harvesting with protective barriers/any other suitable purpose like aquaculture approved by the authority.
- 5.6 All the necessary control measures provided should be maintained properly to ensure that the system is adequate to control the air and water pollution caused by the functioning of the unit within the limit.
- 5.7 Regular wetting of the roads in the premises of the quarry and approach roads near the quarry shall be done for avoiding excessive dust emission within and outside the boundary of the unit.
- 5.8 Boundary of quarrying area shall be fenced and demarcated.
- 5.9 Fugitive emission from the quarry premises and road leading to quarry shall be suppressed using water sprinkling.
- 5.10 The suspended particulate matter (SPM) at boundary of the premises of the quarry shall not exceed the following limit applicable to that area as per the National Ambient Air Quality Standards.
- The PM 10 in ambient air at the boundary shall not exceed 100 microg/m³
 - The PM 2.5 in ambient air at 1m outside the boundary shall not exceed 60 microg/m³.
- 5.11 The sound level measured at 1.0 m outside the boundary shall not exceed the limit as per the Ambient Air Quality Standards in respect of Noise.
- 5.12 The operation of the unit shall be commenced/done only after obtaining clearances from all concerned authorities.
- 5.13 The quarry shall be operated only from 6am to 6pm.
- 5.14 For renewal of the consent in case of continuance of operation of the industry, application in the prescribed form shall be submitted through the web portal of the Board <http://krocmms.nic.in> for renewing the Consent on or before two month in advance to expiry date. Late application will be accepted with 10% (for application before expiry date) & 50% of yearly fee as late fee for application after due date.
- 5.15 This Consent is granted on the basis of ENVIRONMENTAL CLEARANCE DATED:15/03/2018 and other documents furnished by the applicant. If any document is found false, the consent issued will be cancelled/ revoked.
- 5.16 This consent is granted subject to the Environmental Clearance No: 32/2018 dated 15.03.2018 issued by proceedings of Sate Environmental Impact Assessment Authority, DEIAA.

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

BINDHU RADHAKRISHNAN Digitally signed by BINDHU RADHAKRISHNAN
Date: 2019.02.02 18:12:25 +05'30'

DATE :02/02/2019

SIGNATURE & SEAL OF ISSUING AUTHORITY
ENVIRONMENTAL ENGINEER DISTRICT
OFFICE ,THIRUVANANTHAPURAM




To
Poabs Granites (P) Ltd
Malamugal, Vattiyoorkavu P.O Trivandrum

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.

Page3

Consent Order from Kerala State Pollution Control Board

ANNEXURE 14



തിരുവനന്തപുരം നഗരസഭ
[Thiruvananthapuram Corporation]
1994-ലെ നഗരസഭാ നിയമത്തിൻ അനുസരിച്ച് 1994-ലെ 20-ാം അനുച്ഛേദം 447 (20th Act of 1994)
[Issued under Section 447 of the Kerala Municipality Act 1994 (20th Act of 1994)]

അനുമതിപത്രം
[LICENCE]

1. അനുമതി നമ്പർ : **140167111900025** 2. തീയതി : **06-03-2019**
[Licence Number] [Date]

3. അനുമതിയ്ക്ക് വിധേയനായ വ്യക്തിയുടെ പേരും വിലാസവും :
[Name and address of the Licensee] **ABY MATHEW
MANAGING DIRECTOR,
POABS GRANITES PVT LTD,
PEROORKKADA VILLAGE
BLOCK-23 SY NO 461/4 461/1
462/1PT 462/2 462/3 446/4
446/7PT 446/8PT 462/5 461/2
461/3, TRIVANDRUM 695013**

4. അനുമതിയ്ക്ക് വിധേയമായ കാര്യം :
[Purpose of Licence]

ക്രമ നമ്പർ	വിവരങ്ങൾ	അനുമതി / തുക	കുതിര
1.73.2	കൽക്കരി, കൽക്കരി, കൽക്കരി, കൽക്കരി	അനുമതി 5 മാസത്തിനുള്ളിൽ - ബി സെക്ഷൻ	2000
1.104.2	അനുമതിയുള്ളതല്ലാത്ത കൽക്കരി, കൽക്കരി, കൽക്കരി	അനുമതിയുള്ളതല്ലാത്ത കൽക്കരി - ബി സെക്ഷൻ	750
1.105.5	അനുമതിയുള്ളതല്ലാത്ത കൽക്കരി, കൽക്കരി, കൽക്കരി	അനുമതിയുള്ളതല്ലാത്ത കൽക്കരി - ബി സെക്ഷൻ	3000
1.144.5	അനുമതിയുള്ളതല്ലാത്ത കൽക്കരി, കൽക്കരി, കൽക്കരി	അനുമതിയുള്ളതല്ലാത്ത കൽക്കരി - ബി സെക്ഷൻ	750
2.38.2	അനുമതിയുള്ളതല്ലാത്ത കൽക്കരി, കൽക്കരി, കൽക്കരി	അനുമതിയുള്ളതല്ലാത്ത കൽക്കരി - ബി സെക്ഷൻ	800
Total			7300

5. അനുമതിയ്ക്ക് കാര്യം :
[Period of Licence] **01-04-2019** മുതൽ **31-03-2020** വരെ
[From] [To]

അനുമതിയ്ക്ക് വിധേയമായ കൽക്കരി / കൽക്കരി :
[Name of Project / Institution / Shop] **POABS GRANITES PVT LTD (QUARRY UNIT),
malamukal**

അനുമതിയ്ക്ക് നമ്പർ : **6** അനുമതി നമ്പർ : **461/4 461/1 462/2 462/3
446/4 462/3 461/2 461/3**

6. അനുമതിയ്ക്ക് വിധേയമായ കൽക്കരി :
[Ward No.] **6** [Survey No.]

7. അനുമതിയ്ക്ക് വിധേയമായ കൽക്കരി :
[Licence Fees Details]

അനുമതി നമ്പർ [Receipt No]	തീയതി [Date]	അനുമതിയ്ക്ക് വിധേയമായ കൽക്കരി [Licence Fees]
118070112830	19-02-2019	7300


അനുമതിയ്ക്ക് വിധേയമായ കൽക്കരി അനുമതിയ്ക്ക് വിധേയമായ കൽക്കരി പ്രകാരം :
[Signed and Sealed as authorised by Licensing Authority]

Date Office Seal Name and Designation Seal Signature

MOHANA CHANDRAN, T.
Municipal Corporation Thiruvananthapuram

Panchayat License

ANNEXURE 15



भारत सरकार | Government of India
वाणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो) | Petroleum & Explosives Safety Organisation (PESO)
पूर्व नाम- विस्फोटक विभाग | Formerly- Department of Explosives
केन्द्रीय भवन, ब्लाक सी-2, तीसरी मंजिल | Kendriya Bhavan, Block C-2, 3rd Floor
CSEZ पो.ओ.कक्कनाड कोच्चि | CSEZ PO Kakkanaad Dist. Ernakulam Ernakulam 682037
फोन (Phone):- 2427286 | फैक्स (Fax):- 2427276
ई-मेल Email: dycceernakulam@explosives.gov.in

संख्या (No.): E/SC/KL/22/2(E8469) दिनांक (Date): 21/03/2019

सेवा में / To, **26 MAR 2019**
M/S. POABS GRANITES PVT. LTD.,
M/S. POABS GRANITES PVT. LTD., KUTOOR P.O., THIRUVALLA, PATHANAMTHITTA, KERALA., Town/Village - Kutoor
District-PATHANAMTHITTA, State-Kerala, Pincode - 689106

विषय : Survey No(s).1469/3/5 & 1469/2, ग्राम VELLANAD, जिला THIRUVANANTHAPURAM, राज्य Kerala में विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुज्ञति सं E/SC/KL/22/2(E8469) के नवीनीकरण संदर्भ में।

Subject: Possession for Use of Explosives from magazine situated at Survey No(s).:1469/3/5 & 1469/2, VELLANAD, Dist. THIRUVANANTHAPURAM, Kerala -Licence No.: E/SC/KL/22/2(E8469) granted in Form LE-3 of Explosives Rules, 2008 - Renewal regarding

महोदय | Sir,

आपका उपर्युक्त विषय पर पत्र संख्या Nil दिनांक 15/03/2019 का संदर्भ ग्रहण करें। विस्फोटक नियम, 2008 के अंतर्गत प्ररूप LE-3 में जारी अनुज्ञति दिनांक 31/3/2024 तक नवीनीकृत कर इस पत्र के साथ भेजी जा रही है।
 Reference to your letter No.: Nil dated: 15/03/2019, the subject licence duly renewed upto 31/3/2024 and issued in Form LE-3 of Explosives Rules, 2008 is forwarded herewith.

अनुज्ञति के आगामी नवीकरण हेतु कृपया निम्नलिखित दस्तावेज दिनांक 31/03/2024 से पहले इस कार्यालय को भेजे जाएं।
 For further renewal of licence, please submit the following documents so as to reach this office on or before 31/3/2024.

- प्ररूप आरई-1 में विधिवत पूर्ण एवं हस्ताक्षरित आवेदन।
Application in Form RE-1 duly filled in and signed.
- एक से पाँच वर्ष के अनुज्ञति शुल्क का बैंक ड्राफ्ट। बैंक ड्राफ्ट किसी भी राष्ट्रीयकृत बैंक के नाम आहरित, संयुक्त मुख्य विस्फोटक नियंत्रक, चेन्नई के पक्ष में चेन्नई में देय हो।
Licence fees for one to five years in the form of demand draft drawn on any Nationalized Bank in favour of Jt. Chief Controller of Explosives, Chennai payable at Chennai.
- अनुमोदित प्लान के साथ मूल अनुज्ञति।
Original licence with approved plan.
- कृपया इस संबंध में विस्फोटक नियम, 2008 के नियम 112 का भी संदर्भ ग्रहण करें।
In this connection, please also refer to Rule 112 of Explosives Rules, 2008.
- विस्फोटकों के क्रय हेतु आरई-11 में मांगपत्र (इंडेंट) आपूर्तिकर्ता को दिया जाए और उसी की एक प्रति इस कार्यालय को भेजी जाए (आतिशबाजी गोदाम के लिए लागू नहीं)।
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)
- कृपया विस्फोटकों की बैमासीक विवरणी हर तिमाही के अंत में आरई-7 में प्रस्तुत की जाए। विवरणी इस कार्यालय के कार्यालय में आगामी तिमाही के 10 तारीख से पहले पहुंच जानी चाहिए (आतिशबाजी गोदाम के लिए लागू नहीं)। 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)
- सभी ब्लास्टिंग आपरेशन एक सक्षम द्वारा की जाएगी जो उपरोक्त नियमों के तहत एक वैध शॉट फायर प्रमाणपत्र धारक हो। हालांकि, खान अधिनियम 1952 के अधीन आने वाले खानों में ब्लास्टिंग आपरेशन करने वाले ब्लास्टर की योग्यता उसी अधिनियम से निर्धारित हो।
All blasting operations shall be carried out by a competent person holding a valid shot firer's permit granted under above rules. However, blasting operations in mines coming under the purview of the Mines Act 1952, the blaster shall have qualifications prescribed in the regulations framed under the said Act.

आपके खाते में रुपए 28300/- की राशि शेष है जो इस संदर्भ को उद्धृत करते हुए भविष्य के संव्यवहार में समायोजित की जा सकती है।
 An amount of ₹s. 28300/- balance is in your credit, which may be utilized for future transaction by quoting this reference.

भवदीय | Your's faithfully

(आर.वेणुगोपाल | Dr. R. Venugopal)

उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives
 कोच्चि | Ernakulam
 Deputy Chief Controller of Explosives
 एरनाकुलम Ernakulam
 एरनाकुलम (Kerala)- सूचना के लिए (for information.)
 उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives
 कोच्चि | Ernakulam

प्रतिलिपि प्रेषित | Copy Forwarded to:

1. जिला मजिस्ट्रेट (District Magistrate), THIRUVANANTHAPURAM

अनुज्ञप्ति प्रारूप एल.ई.-3 | LICENCE FORM LE-3
(विस्फोटक नियम, 2008 की अनुसूची 4 के भाग 1 के अनुच्छेद 3(क) से (घ) देखिए।)
(See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008)

(ग) उपयोग के लिए एक समय पर वर्ग 1,2,3,4,5 या वर्ग 7 के विस्फोटक या किसी मैगजीन में वर्ग 6 के विस्फोटक रखने के लिए अनुज्ञप्ति
Licence to possess : (c) for use, explosives of class 1, 2, 3, 4, 5, 6 or 7 in a magazine

अनुज्ञप्ति सं. (Licence No.): E/SC/KL/22/2(E8469)
वार्षिक फीस रूप (Annual Fee Rs): 2400/-

1. Licence is hereby granted to
M/S. POABS GRANITES PVT. LTD. (अधिभोगी / Occupier : Mr. Aby Mathew), M/S. POABS GRANITES PVT. LTD., KUTOOR P.O., THIRUVALLA, PATHANAMTHITTA, KERALA, Town/Village - Kutoor, District-PATHANAMTHITTA, State-Kerala, Pincode - 689106

को अनुज्ञप्ति अनुदत्त की जाती है।

2. अनुज्ञप्तिधारी की प्राप्तिस्थिति | Status of licensee : Company

3. अनुज्ञप्ति निम्नलिखित प्रयोजनों के लिए विधिमान्य है।
Licence is valid only for the following purpose.
possess for use of Nitrate Mixture, Safety Fuse, Electric and/or Ordinary Detonators, - के उपयोग के लिए

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

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	250 Kg.
2.	Safety Fuse	6,1	0	4000 Mtrs
3.	Electric and/or Ordinary Detonators	6,3	0	10000 Nos.

(ख) किसी एक कैलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा [अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञप्ति 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 अनुज्ञप्ति परिसर की पुष्टि होती है।
The licensed premises shall conform to the following drawing(s):
रेखाचित्र क्र. (Drawing No.) E/SC/KL/22/2(E8469)
दिनांक (Dated) 22/12/1999

6. अनुज्ञप्ति परिसर निम्नलिखित पते पर स्थित है। The licensed premises are situated at following address:
Survey No(s). 1469/3/5 & 1469/2, ग्राम (Town/Village) : VELLANAD
जिला (District) THIRUVANANTHAPURAM राज्य (State) Kerala पुलिस थाना (Police Station) : ARLANADU
दूरभाष (Phone) ई.मेल (E-Mail) पिनकोड (Pincode) फैक्स (Fax)

7. अनुज्ञप्ति परिसर में निम्नलिखित सुविधाएं अंतर्निहित हैं।
The licensed premises consist of following facilities.
B & S TYPE PORTABLE MAGAZINE

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

1. उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सन्निर्माण संबंधी और अन्य विवरण दर्शित करते हुए।)
Drawings (showing site, constructional and other details) as stated in serial No. 5 above.

2. अनुज्ञप्ति प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञप्ति की शर्तों और अतिरिक्त शर्तों।
Conditions and Additional Conditions of this licence signed by the licensing authority.

3. दूरी प्रारूप DE-2 | Distance Form DE-2.

9. यह अनुज्ञप्ति तारीख 31 मार्च 2005 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2005.
यह अनुज्ञप्ति, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपवर्णित इस अनुज्ञप्ति की शर्तों का अधिकमन करने या यदि अनुज्ञप्ति परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंहत की जा सकती है, जहां यह 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.

Sd/-
संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller of Explosives
South Circle, Chennai

तारीख | The Date - 22/12/1999

नवीनीकरण के पृष्ठान्त के लिए स्थान
Space for Endorsement of Renewal

Amendments :
● Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 20/05/2011
● Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 14/12/2011

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

नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature of licensing authority and stamp
21/03/2019	31/03/2024	Dy. Chief Controller of Explosives, Ernakulam उप-मुख्य विस्फोटक नियंत्रक 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.

Explosive License

ANNEXURE 16

[illegible]

ANNEXURE 17

www.mstbrazil.com

മുക്താഭയ, തദ്ദേശ, പുനരധിവാസം.

കോളിബ്

ബഹുമാനപ്പെട്ട പ്രവാസിമാരേ,
മക്കളേ സംസ്കാരം, ജീവനാശ
പറ്റും ജീവ്, ജീവശ്വാസപ്രദമാ
യെങ്കിൽ, സ്വാർത്ഥത വേണ്ടില്ല
പോട്ട. സ്വർഗ്ഗം നൽകി 1971-
72, 1973, 1974, 1975, 1976, 1977,
1978, 1979, 1980, 1981, 1982,
1983, 1984, 1985, 1986, 1987,
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ANNEXURE 18



Validity expires on 14.03.2023

**Proceedings of the State Environment Impact Assessment
Authority Kerala**

*Present: Prof. (Dr.) K.P. Jay, Chairman; Dr. J. Sathashini, Member &
Sri. P.H. Kurian, I.A.S., Member Secretary.*

Sub: SEIAA- Environmental Clearance for the proposed stone quarry project in Survey No. 459/1-1pt., 459/2, 460/10, 12, 460/2-1pt., 460/2-2, 461/4, 461/1, 462/1pt., 462/2, 462/3, 446/4 pt., 446/7 pt., 446/8 pt., 462/5, 461/2, 461/3, 447/3, 2pt., 448/3pt., 2, 1pt., 452/5pt., 452/4, 6, 7, 8 of Perookkuda Village, Thiruvananthapuram Taluk, Thiruvananthapuram District, Kerala by Mr. Jabu K. Abraham, Managing Partner, M/s POABS Granites Pvt. Ltd. - Granted - Orders issued.

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, KERALA

No. 1071(A)/ECI/2016/SEIAA

Dated: Thiruvananthapuram 15.03.2018

- Ref: 1. Application received on 02.11.2016 from Mr. Jabu K. Abraham, Managing Director, M/s Poabs Granites Pvt. Ltd. Kattour P.O., Thiruvallu, Kerala-689106
2. Minutes of the 69th meeting of SEIAA held on 09th & 10th March 2017
3. Minutes of the 71st meeting of SEIAA held on 20th & 21st April 2017
4. Minutes of the 74th meeting of SEIAA held on 14th & 15th June 2017
5. Minutes of the 75th meeting of SEIAA held on 01st August 2017
6. Minutes of the 76th meeting of SEIAA held on 16th November 2017
7. Affidavit dt.02.10.2017 from Mr. Jabu K. Abraham

ENVIRONMENTAL CLEARANCE NO.32/2018

Mr. Jabu K. Abraham, Managing Director M/s Poabs Granites Pvt. Ltd. Kattour P.O., Thiruvallu, Kerala-689106, vide his application received on 02.11.2016 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Survey No. 459/1-1pt., 459/2, 460/10, 12, 460/2-1pt., 460/2-2, 461/4, 461/1, 462/1pt., 462/2, 462/3, 446/4 pt., 446/7 pt., 446/8 pt., 462/5, 461/2, 461/3, 447/3, 2pt., 448/3pt., 2, 1pt., 452/5pt., 452/4, 6, 7, 8 of Perookkuda Village, Thiruvananthapuram Taluk, Thiruvananthapuram District, Kerala State for an area of 14.5687 hectares. The project comes under Category D, Activity 1(a), (c) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. J-11011/47/2011-IV (I/M) dated 18th May 2012 of Ministry of

Received: Sindhul
SINDHUL
Charge Officer
Varkandavu Zonal
Municipal Corporation
Thiruvananthapuram

Page 1 of 13

ANNEXURE 19



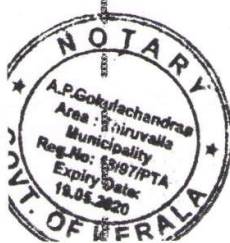
केरल KERALA

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AFFIDAVIT

I, Jabu K Abraham, Director & Authorized Signatory of M/s Poabs Granites Pvt. Ltd. having its correspondence office at Kuttoor P.O. Thiruvalla, Pathanamthitta, Kerala - 689106, do hereby affirm and confirm as follows:-

- That, M/s Poabs Granites Pvt. Ltd. propose to develop a Quarry Project at Survey Nos. 459/1-1pt, 459/2, 460/10, 12, 460/2-1pt., 460/2-2, 461/4, 461/1, 462/1pt., 462/2, 462/3, 446/4pt., 446/7pt., 446/8pt., 462/5, 461/2, 461/3, 447/3, 2pt., 448/3pt., 2, 1pt., 452/5pt., 452/4, 6, 7, 8 of Peroorkada Village, Thiruvananthapuram Taluk, Thiruvananthapuram District, Kerala.



A.P. Gokula Chandran, B.A.L.L.B.
Advocate & Notary
Roll No-K/186/71 Thiruvalla



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2. That, the Environment Clearance proceedings number and date are Order No. 1071(A)/EC1/2016/SEIAA dt. 15-03-2018.
3. That, all the conditions stipulated in the Environment Clearance would be scrupulously followed.

DEPONENT

Verification:

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

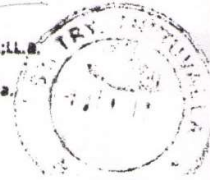
DEPONENT

Place: Thiruvananthapuram
Date: 03-04-2018

*Solemnly affirmed and signed
before me by the deponent who
is personally known to me in
my office at Thiruvalla on this
the 3rd day of April 2018*



A.P. Gokula Chandran, S.A.L.L.
Advocate & Notary
Roll No: K/86/71 Thiruvalla



abs Gokula: pvt. lto

ANNEXURE 20


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

ACCREDITED BY KSPCB AS "A" GRADE LABORATORY

TEST REPORT

Page 01 of 01

Client Name & Address M/s Poabs Granites Pvt. Ltd Peeroorkada , Trivandrum.	Certificate No:	PL/AMB/RT/7331/2019
	Date of issue:	20/05/2019
	Date of monitoring	15/05/2019 10.00 Hrs to 16/05/2019 10.00 Hrs
	Date of sample received:	16/05/2019
	Date of analysis	17/05/2019
	Monitoring Location	M/s. Poabs Granites Pvt Ltd. Sy.No.459/2,460/10,460/12,446/8,462/5,461/2, 461/3,446/7,460/2-2,460/2-1, Village - Peeroorkada, Taluk-Trivandrum, District - Trivandrum,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	56.3 µg/m ³	100 µg/m ³
02	Particulate Matter (PM _{2.5})	CPCB	34.2 µg/m ³	60 µg/m ³
03	Sulphur dioxide	I S 5182 Part 2 2001 RA 2017	9.5µg/m ³	80 µg/m ³
04	Nitrogen dioxide	IS 5182 Part 06 2006 RA2017	6.5 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 RAMESH
 Quality Manager
 Poluchem Laboratories (P) Ltd.