COMPLIANCE REPORT TO THE CONDITIONS

OF

ENVIRONMENTAL CLEARANCE ORDER

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

 \mathbf{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

 \mathbf{BY}

POABS GRANITES PRIVATE LIMITED KUTHIRAKALAM P.O., TRIVANDRUM, KERALA – 695 543

April, 2020 - September 2020

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. Fifth half yearly Compliance Report to the specific and general conditions of the environmental clearance for the period of April 2020 - September, 2020 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 converted the abandoned pit on the western part as Rainwater harvesting pond. The Rainwater harvesting system is constructed by earthen wall strengthened by geotextiles. Preserved 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

The Company perfectly protecting the plant species that are endemic to Western Ghats in situ or by transplanting to a suitable location. We also plan to develop a plant Nursery for plant species reported from the project area 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

Rainwater harvesting systems has provided 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.	Туре	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 discus 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. Viswanathappa
7	Name of the Asst. officer of Environment, Health and safety	Mr. Ravisankar
8	Name of the environmental consultant	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

Along the side of the open parking areas, approach road and internal road systems planted with suitable avenue trees. Photographs showing the same is provided at Annexure No. 2. Plant saplings maintained in the nursery for roadsides and parking areas as follows.

S1. No	Botanical Name	Common Name	Family	Distributio n	Status
1	Mangifera indica L.	Mavu	Anacardiacea e	Evergreen and semi-evergreen	Indo- Malaysia

				forests and also widely cultivated	
2	Cassia fistula L.	Indian Laburnum/ Kanikkonn a	Fabaceae		Indo- Malesia
3	Artocarpus heterophyllus Lam.	Plavu	Moraceae	Evergreen and semi- evergreen forests, also widely cultivated	Widely cultivate d in the tropics, origin is probably South India
4	Acacia auriculiformi s 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

Regarding the present project, we have provided solar energy devices such as solar lights and solar water heater in the project area. Solar water heater and biogas plant are associated with canteen and are using for kitchen purposes. Solar lights has 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

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. For the dust generated during Crushing & Screening operation, company has installed fixed water sprinkling systems in the Crushing units. For the suppression of dust during drilling and blasting, we adopted wet sack method for drilling. 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 quarry, 10% 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

Ten percent of the excavated pit area will be retained as water storage area after the closure of the quarry. 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 plant in the areas prone to erosion especially at the foot of the hill.

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

Barbed metal wire fencing around the mining area with a height of 4ft have installed to prevent falling of animals/human/belongings/dumping of garbage's etc. All the boundary indicators (boards, stores, markings, etc.) has protected. 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 the present project, we have provided warning alarm in the project site and maintaining properly. A danger board indicating blasting time has also 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.
- **❖ NONEL Detonators are using for blasting**

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

√ Compliance

Quarrying and related activities limited to day time only as per KSPCB quidelines/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.
- NONEL Detonators are using for blasting and this will reduce the vibration and sound.

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 quarry has tarred and maintaining properly 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/EC Condition. 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 is the mining plan/specific condition.

√ Compliance

Quarrying is carrying out in the form of benches and 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

Blasting mats to stop fly rock during blasting has provided. Number of other safety measures are also practicing to prevent fly rocks cross the lease area. Which includes: blasting during unfavorable weather conditions has avoided, maintain optimum delay sequence and stem to column ratio to minimize the fly rock distance etc. 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

In the current quarry 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

Quarrying activities are not performing at regions having a slope greater than 45°.

> Condition 21

Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers, so that the noise level is kept within prescribed standards given by CPCB/KSPCB.

√ Compliance

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

Workers has 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

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

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

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

√ Compliance

We are planting trees saplings 5 times of the loss that has been occurred while clearing the land for the project. Regarding the present project the loss of trees are comparatively less since most of the EC area is already under quarrying.

Condition 26

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

√ Compliance

Disposal of spent oil from diesel engines 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.

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.

S1. No.	Annexure	Statutory approvals
1	14	License from Panchayat
2	15	License to possess: (c) for use, explosives of class1, 2, 3, 4, 5, 6 or 7.

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

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

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.

S1.	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/ Muncipality/ 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

Fifth compliance report is being submitted to SEIAA, Department of Environment and Climate change, Govt. of Kerala and Regional Office of MoEF, Govt. of India.

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.

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. 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 sprinklers has installed at 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 has been storing the overburden and topsoil generated during the mining operation in an earmarked area. The maximum height of the dump are maintaining below 8m and width 20m and overall slope of the dump will be maintained to 45°. The O.B. dump is scientifically vegetating with suitable native species to prevent erosion and surface run off. In critical areas, we are using geo textiles 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.

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 the catch drains at appropriate site with checks and siltation traps 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 porn to air pollution and having high levels of PM_{10} and PM_{25} 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

Suitable safe guard actions such as regular water sprinkling are carrying out in critical areas porn to air pollution and having high levels of PM_{10} and PM_{25} such as haul road loading and uploading points and transfer points. We are ensuring that the Ambient Air Quality Parameters follow to the norms prescribed by the Central Pollution Control Board in this regard.

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 on haul roads, loading and unloading at transfer points has arranged and properly maintaining.

Condition 47

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

√ Compliance

Diverse methods are adopting 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 do not diverted for other purpose.

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 not withstanding 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.

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 present mining project we are using only harvested rainwater for the industrial/domestic water needs.

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 streams 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







Photographs showing the rainwater harvesting system in the project area



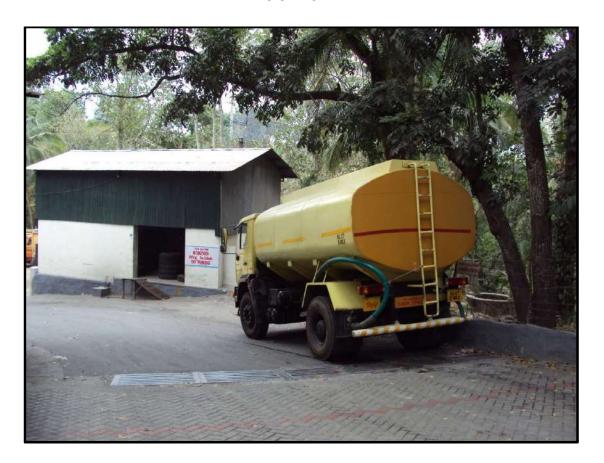


Photographs showing tree planted around parking areas and road sides





Photograph showing the Solar Energy device installed within the project area





Photograph showing the Sprinkler system provided in the site





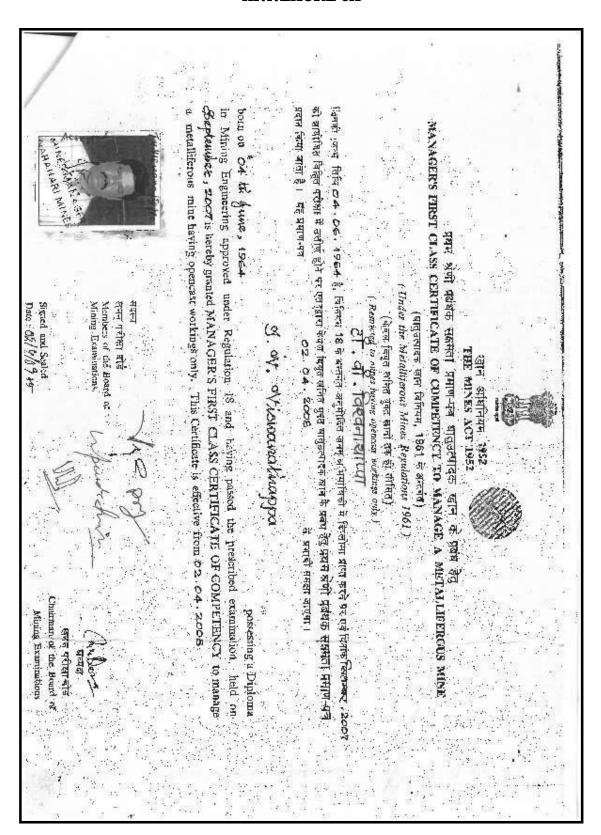
Photograph showing the metal wire fencing and indicators boards

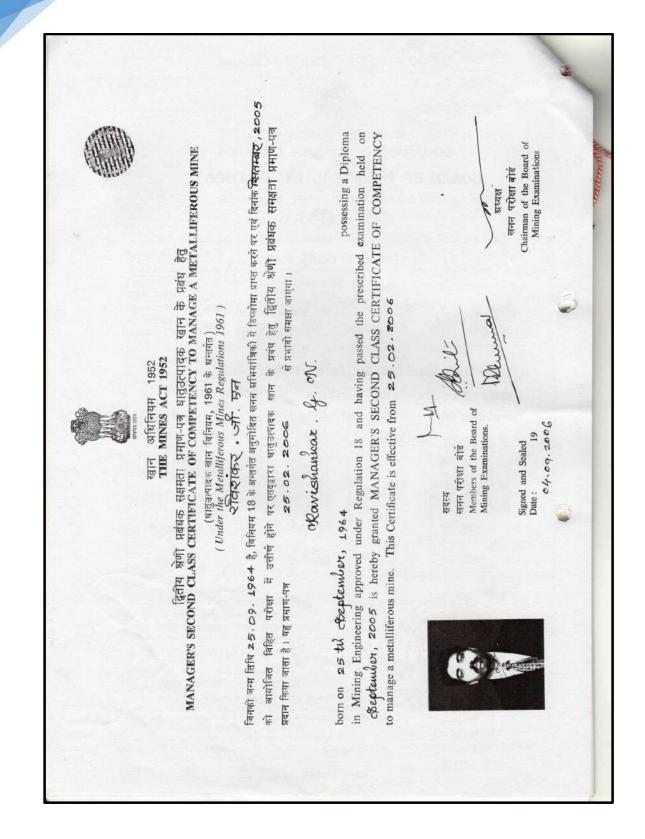


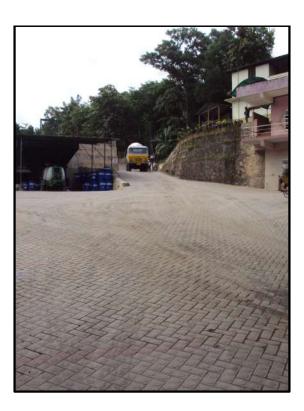


Photograph showing the danger board indicating blasting time AND Warning alarm installed in the project site

ANNEXURE 6A









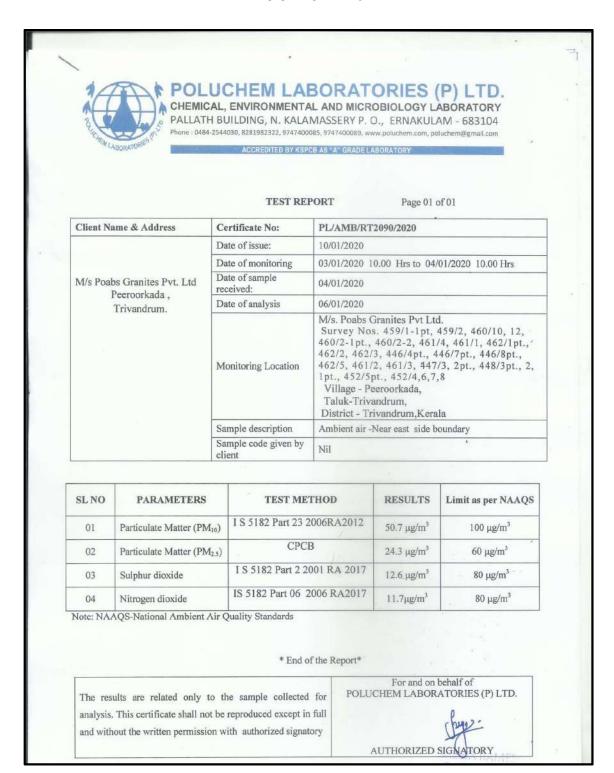
Photograph showing the tarred/Brick paving access road to the quarry



Photographs showing top soil and Overburden storage area



Photograph showing the Bench Type Mining





POLUCHEM LABORATORIES (P) LTD. CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

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	Certificate No:	PL/RT/SD/2091/2020
	Date of issue:	10/01/2020
M/s Poabs Granites Pvt. Ltd Peeroorkada, Trivandrum.	Date of monitoring	03/01/2020 10.00 Hrs to 04/01/2020 10.00 Hrs
	Monitoring Location	M/s. Poabs Granites Pvt Ltd. 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 Village - Peeroorkada, Taluk-Trivandrum, District - Trivandrum, Kerala
	Sample Description	Ambient Sound Level (Leq)
Monitoring Location	Time	Results
	10,00 Hrs	54.3 dB (A)
	11.00 Hrs	53.2 dB (A)
	12.00 Hrs	50.2 dB (A)
	13.00 Hrs	51.4 dB (A)
	14.00 Hrs	50.2 dB (A)
	15.00 Hrs	51.2dB (A)
	16.00 Hrs	49.5 dB (A)
	17.00 Hrs	48.6 dB (A)
	18.00 Hrs	47.5 dB (A)
	19.00 Hrs	39.8 dB (A)
	20.00 Hrs	38.4 dB (A)
120 00 000000 000	21.00 Hrs	37.4 dB (A)
East side boundary	22.00 Hrs	36.2 dB (A)
	23.00 Hrs	35.4 dB (A)
	00.00 Hrs	36.4 dB (A)
	01.00 Hrs	37.4 dB (A)
	02.00 Hrs	39.5 dB (A)
	03.00 Hrs	40.1 dB (A)
	04.00 Hrs	42.3 dB (A)
	05.00 Hrs	43.5 dB (A)
	06.00 Hrs	44.6 dB (A)
	07.00 Hrs	49.8 dB (A)
	08,00 Hrs	50.1 dB (A)
	09.00 Hrs	51.4 dB (A)
Leq (Day time)	07.00 1113	54.6 dB (A)
Leq (Night time)		36.2 dB (A)

*End of the Report *

For Poluchem Inaboratories (P) Ltd.

EEJA RAMESH



POLUCHEM LABORATORIES (P) LTD.

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY PALLATH BUILDING, N. KALAMASSERY P. O., ERNAKULAM - 683104 Phone : 0484-2544030, 8281982322, 9747400085, 9747400089, vvww.poluchem.com, poluchem@gmail.com

ACCREDITED BY KSPCB AS "A" GRADE LABORATORY

TEST REPORT

Ref.No. PL/RT/SW/2092/2020

Page 01 of 02

Name & address of customer

Date of Issue: 10/01/2020

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

Project Site

: M/s. Poabs Granites Pvt Ltd. 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

: Poluchem Laboratory Sample Collector

Village - Peeroorkada,

Taluk-Trivandrum,

District - Trivandrum, Kerala

Sample drawn by Sample description Location of sampling

: Water Sample : Pond Water : 04/01/2020

Date of sample collected Date of analysis started Date of completion of analysis

: 06/01/2020 : 08/01/2020

Parameters tested	Test method	Results	Acceptable Limit As Per IS 10500-2012
Color	IS 3025 (P) 04 - 1983 RA2017	9 Hazen Unit	5 Hazen Unit
Odour	IS 3025 (P) 05 - 1983 RA2017	Agreeable	Agreeable
Turbidity	IS 3025 (P) 10 - 1984 RA2017	3 NTU	1 NTU
pH	IS 3025 (P) 11 – 1983 RA 2017	6.21	6.5 - 8.5
Total Dissolved Solids	IS 3025 (P) 16 - 1984 RA2017	79mg/l	500 mg/l
Total Hardness as CaCO ₃	IS 3025 (P) 21 - 1983 RA2014	21.7 mg/l	200 mg/l
Total Alkalinity as CaCO ₃	IS 3025 (P) 23 - 1986 RA2014	14.8 mg/l	200 mg/l
Residual Chlorine	IS 3025 (P) 26 - 1986 RA2014	BDL	0.2 mg/l
Chloride as Cl	IS 3025 (P) 32 - 1988 RA2014	16.3 mg/l	250 mg/l
Calcium as Ca	IS 3025 (P) 40 - 1991 RA2014	6.12 mg/l	75 mg/l
Magnesium as Mg	IS 3025 (P) 46 - 1994 RA2014	2.14 mg/l	30 mg/l
Total Iron as Fe	IS 3025 (P) 53 - 2003 RA2014	0.19 mg/l	0.3 mg/l
Sulphate as SO ₄	IS 3025 (P) 24 – 1986 RA2009	9.6 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.





POLUCHEM LABORATORIES (P) LTD. CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

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

Page 02 of 02

Continuation of Test Certificate No: 2092/2020

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/I
Zinc as Zn	IS 3025 (P)49 – 1994 RA2014	BDL	5 mg/l
Mercury as Hg	IS 3025(P) 48 – 1994 RA2014	BDL	0.001 mg/l
Cyanide as CN	IS 3025(P)27-1986 RA2014	BDL	. 0.05 mg/l
Lead as Pb	IS 3025(P) 47-1994 RA2014	BDL	0.01 mg/l
Aluminum as Al	IS 3025(P) 55-2003 RA2014	BDL	0.03 mg/l
Boron as B	IS 3025(P) 57-2005 RA2017	BDL	0.5 mg/l

Note: BDL – Below Detection Level MICROBIOLOGY ANALYSIS

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

For Poluchem Laboratories (P) Ltd.

Authorized signalory

* 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.

ANALYSIS OF AMBIENT AIR, STACK EMISSION, SOUND, LIGHT, WATER, EFFLUENT, SOIL, SPICES, FOOD



Photographs showing garland drains



Photograph showing the Explosives magazines built in an isolated area



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)/ &FY/ 95 /2017

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, Vattiyoorkavu P.O Trivandrum is hereby renewed up to 31/01/2020 and issued to M/s Poabs Granites (P) Ltd

Malamugal, Vattiyoorkavu P.O Trivandrum The concent(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.

L GENERAL

S.No. ltems		Description		
	FEE REMITTED	52500/-		

II. Stack Details

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

III. CONDITIONS

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

C1250 1376 Air (Prevention & Control of Pollinion) Act, 1981 and is not a r conservation and bornies before quarrying 5.54 This order is resuled based on pullution 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 exced the ambient noise and and the beautilety small net exceeds 100 macrogram/m3 5 (t) The PM2.5 in the amment air of the boundary shall not exceeds 60 microgram/m3. 5 (1) Fencing shalf 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 SIGNATURE & SEAL OF ISSUING AUTHORITY DATE 02/03/2017 POLLUTION CON BINDU, V. GOPAL Environmental Engineer Pin 695004 To DISTRICT OFFICE 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 da		

II. Stack Details

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

III. CONDITIONS

Page

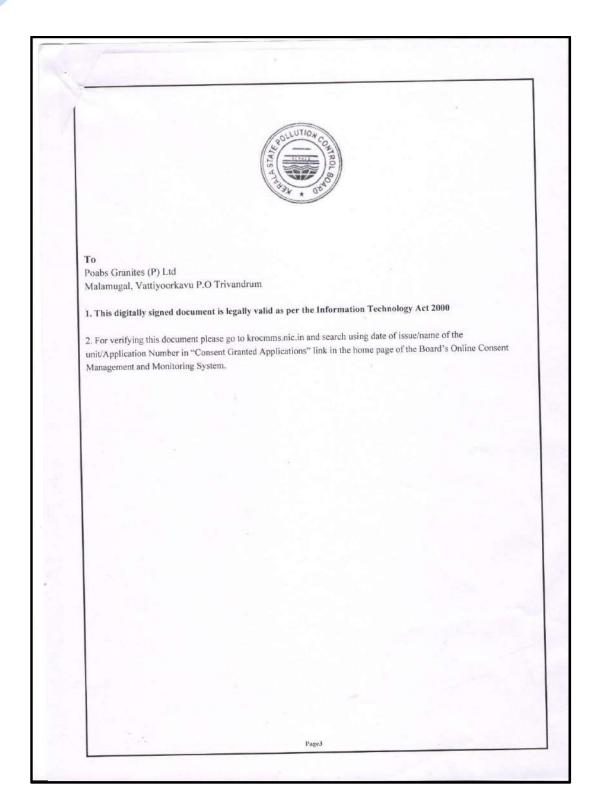
- 5.1 Quarrying is restricted for the land bearing Sy nos:461/4,461/1,462/1pt,462/2,462/3,446/4 pt.
- 5.2 This consent is granted subject to the power of the Board to review and make variations in all or any of the conditions as per section 21 of the Air (Prevention and Control of Pollution) Act 1981 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.
- a) The PM 10 in ambient air at the boundary shall not exceed 100 microg/m3
- b) 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.infor 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.

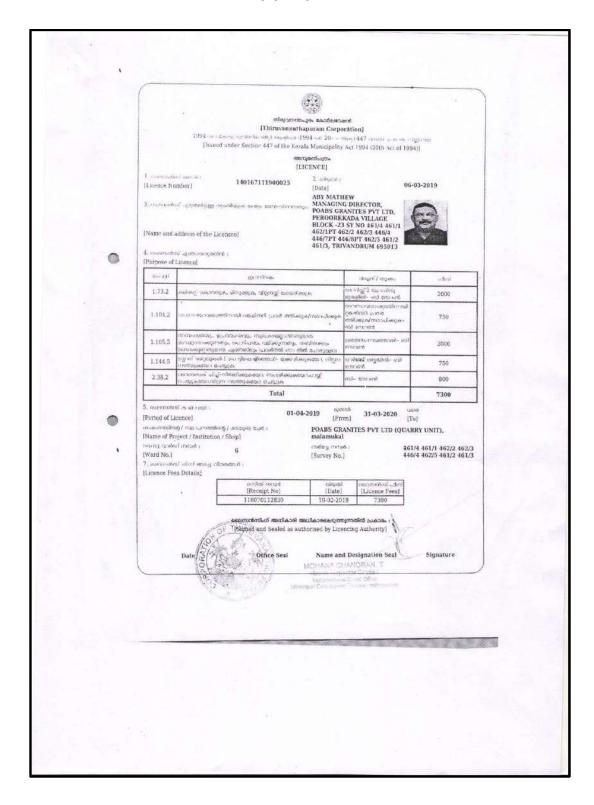
BINDHU RADHAKRISHNAN Digitally signed by BINDHU RADHAKRISHNAN Date: 2019.02.02 18:12.25 +05'30'

DATE:02/02/2019

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



Consent Order from Kerala State Pollution Control Board



Panchayat License



भारत सरकार | Government of India সাবে सरकार | Government of India

वाणिज्य और उद्योग मंत्राक्य | Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसी) | Petroleum & Explosives Safety Organisation (PESO)

पूर्व नाम- विस्फोटक विभाग | Formerly- Department of Explosives

केन्द्रीय मंत्रन, ब्लाक सी-ट्र, तीसरी मंजिल | Kendriya Bhavan, Block C-2, 3rd Floor

CSEZ पी.ओ.कक्कानाड कोच्यी | CSEZ PO Kakkanad Dist. Ernakulam Ernakulam 682037

फोन (Phone)- 2427286 | केक्स (Fax): -2427276

केक्ट हम्मारी स्ट्रक्टनक्कियां मार्क्यप्रकार कुळा हम्मार

ई-मेल Email: dycceernakulam@explosives.gov.in

संख्या (Ng/): E/SC/KL/22/2(E8469)

दिनांक (Date): 21/03/2019

सेवा में /10,

M/S. POABS GRANITES PVT. LTD.,
M/S. POABS GRANITES PVT. LTD.,KUTOOR P.O., THIRUVALLA, PATHANAMTHITTA,KERALA., Town/Village

6 MAR 2019

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 हेत् विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुनिप्त सं E/SC/KL/22/2(E8469) के नवीनीकरण संदर्भ

Possession for Use of of Explosives from magazine situated at Survey No(s).:1469/3/5 &1469/2, VELLANAD, Dist,

Subject:

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 अनुजिस 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.

अनुजिस 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-। में विधिवत पूर्ण एवं हस्ताक्षरित आवेदन। Application in Form RE-1 duly filled in and signed.

 एक से पाँच वर्ष के अनुज्ञिस शुल्क का बैंक ड्राफ्ट। बैंक ड्राफ्ट किसी भी राष्ट्रीयकृत बैंक के नाम आहरित, संयुक्त मुख्य विस्फोटक नियंत्रक, चेन्नई के पक्ष में चेन्नई में देय हों।

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 अनुजित। 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 जाएं (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)

 कृंपया यिस्फोटकों की वैमासीक विवरणी हर तिमाही के अंत में आरई-7 में प्रस्तुत की जाएं । 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 शोट 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 हैं जो इस संदर्भ को उद्दत करते हुए भविषय के संट्यवहार में समायोजित की जा सकती है। An amount of Ps. 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 विस्फोर्डक नियंत्रक | Deputy Chief Controller of Explosives

Deputy Chief Controller of Explosives

प्रतिलिपि प्रेषित | Copy Forwarded to:

গানাৰ प्राप्त | Copy Forwarded to:

एरनाकुलम Ernakulan

1. जिला मजिस्ट्रेट (District Magistrate), THIRUVANANTHAPURAM (Kerala) सूचना के लिए (for information.)

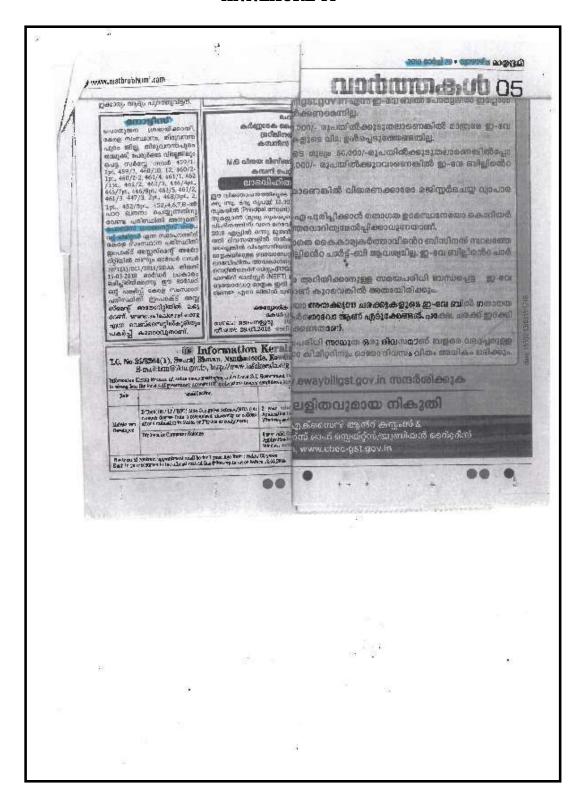
उप मुख्य विरूफोटक नियंत्रक | Deputy Chief Controller of Explosives

कोच्ची | Ernakulam

अनुजित 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 Licence to possess: (c) for use, explosives of class 1, 2,3,4,5,6 or 7 in a magazine अनुजित सं. (Licence No.) : E/SC/KL/22/2(E8469) याषिक फीस रुपए (Annual Fee Rs): 2400/-1. Licence is hereby granted to M/S. POABS GRANITES PVT. LTD. (3代刊行 / Occupier: Mr. Aby Mathew), M/S. POABS GRANITES PVT. LTD., KUTOOR P.G. THIRUVALLA, PATHANAMTHITTA, KERALA, Town/Village - Kutoor, District-PATHANAMTHITTA, State-Kerala, Pincode - 639106 को अनुसिस अनुदत्त की जाती है। 2. अनुजिसधारी की प्रास्थिति | Status of licensee : Company अनुज्ञिस निम्निलिखित प्रयोजनों के लिए विधिमान्य है। possess for use of Nitrate Mixture, Safety Fuse, Electric and/or Ordinary Detonators, - के उपयोग के लिए Licence is valid only for the following purpose. अनुजिस विस्फोटकों के निम्निलिखित किस्मों, प्रकार और मात्रा के लिए विधिमान्य है। Licence is valid for the following kinds and quantity of explosives: -- (क) (a) ক্ল নাম और বিষয়েণ वर्गे और प्रभाग उप-प्रभाग मात्रा किसी एक समय में Sr. No. Name and Description Class & Division Sub-division Quantity at any one time 250 Kg. Nitrate Mixture Safety Fuse 4000 Mtrs 3. Electric and/or Ordinary Detonators 6,3 (ख) किसी एक कलैंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा [अनुच्छेद ३(ख) और (ग) के अधीन अनुजासि के लिए] (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 अनुजप्त परिसर की पुष्टि होती है। रेखाचित्र क. (Drawing No.) E/SC/KL/22/2(E8469) दिनांक (Dated) 22/12/1999 The licensed premises shall conform to the following drawing(s): . अनुजिस परिसर निम्निलिखित पते पर स्थित हैं। The licensed premises are situated at following address: Survey No(s). 1469/3/5 &1469/2, ग्राम (Town/Village): VELLANAD पुलिस थाना (Police Station) : ARLANADU Kerala पिनकोड (Pincode) जिला (District) THIRUVANANTHAPURAM राज्य (State) ई. मेल (E-Mail) फैक्स (Fax) द्रभाष (Phone) ^{7.} अनुजित परिसर में निम्निलिखित सुविधाएं अंतर्विष्ट हैं। B & 2 S TYPE PORTABLE MAGAZINE The licensed premises consist of following facilities. 8 अनुसिस समय – समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधो, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबध्दों 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, सन्तिर्माण संबंधी और अन्य विवरण दर्शित करते हए)। Drawings (showing site, constructional and other details) as stated in serial No. 5 above. अनुनासि प्राधिकारी स्दाररा हस्ता,क्षरित इस अनुनासि की शर्ते और अतिरिक्ति शर्ते। Conditions and Additional Conditions of this licence signed by the licensing authority. 3. ব্ৰী ফেব DE-2 | Distance Form DE-2. 9. यह अनुजाप्ति तारीख 31 मार्च 2005 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2005. यह अनुनित, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपवर्णित इस अनुनित की शतों का अधिक्रमण करने या यदि अनुस्रप्त परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंह्रत 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 संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller of Explosives तारीख | The Date - 22/12/1999 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: 14/12/2011 Change in Licensee Name/Address/Status dated: 26/09/2017 नवीनीकरण के पृष्ठांकन के लिए स्थान Space for Endo sement of Renewal अनुजापन प्राधिकारी के हस्ताक्षर और स्टाम्प नवीकरण की तारीख समाप्ति की तारीख Date of Renewal Date of Expiry Signature of licensing authority and stamp 31/03/2024 Dy. Chief Controller of Explosives, Ernakulam उप मुख्य विस्फोटक नियंत्रक Deputy Chief Controller of Explosives एरनाकुलम Ernakulam कानूनी चेतायनी : विस्फोटकों को गलत ढंग से चलाने या उनका दुरूपयोग विधि के अधीन गंभीर दांडिक अपराध होगा। Statutory Warning: Mishandling and misuse of explosives shall constitute serious criminal offence under the law.

Explosive License







Validity expires on 14.03,2023

Proceedings of the State Environment Impact Assessment Authority Kerala

Present: Frof. (Dr.) K.P. Joy. Chairman: Dr. J. Sathashini, Moniber & Sri. P.H.Kurian, I.A.S., Member Secretary.

Sub: NEIAA- Environmental Clearance for the proposed stone quarry project in Survey No. 459/1-1pt., 459/2, 460/10, 12, 460/2-1pt., 460/2-7, 461/4, 461/1, 462/1pt., 462/2, 462/3, 446/4 pt., 446/7 pc., 446/8 pt., 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, Kerela 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)/EC1/2016/SEIAA

Dated Third von anthonurum 15.03.2018

Ref: 1. Application received on 02,11,2016 firm Mr.Jabu K. Abriham, Managing Director

- M/s Peabs Cranites Pvt. Ltd. Kattoor P.O., Thiravalla, Kerata-689106

 7. Micutes of the 69th meeting of Space and on 09th & 10th March 2017

 3. Micutes of the 71th meeting of Space and on 20th & 21th April 2017

 4. Minutes of the 72th meeting of Space and on 14th & 15th time 2017.

 5. Minutes of the 72th meeting of State and heiding 11th August 2017

 6. Minutes of the 76th meeting of Suitable heiding 11th August 2017.

- 7. Affidavit dt.02.10,2017 from Stiffabit is Straham \$\tau_20

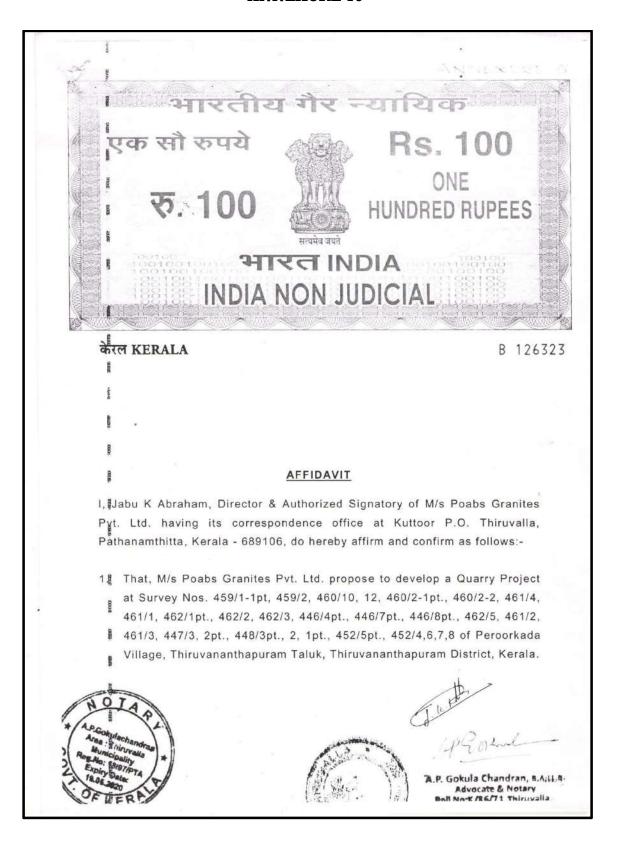
ENVIRONMENTAL CLEARANCE NO.32/2018

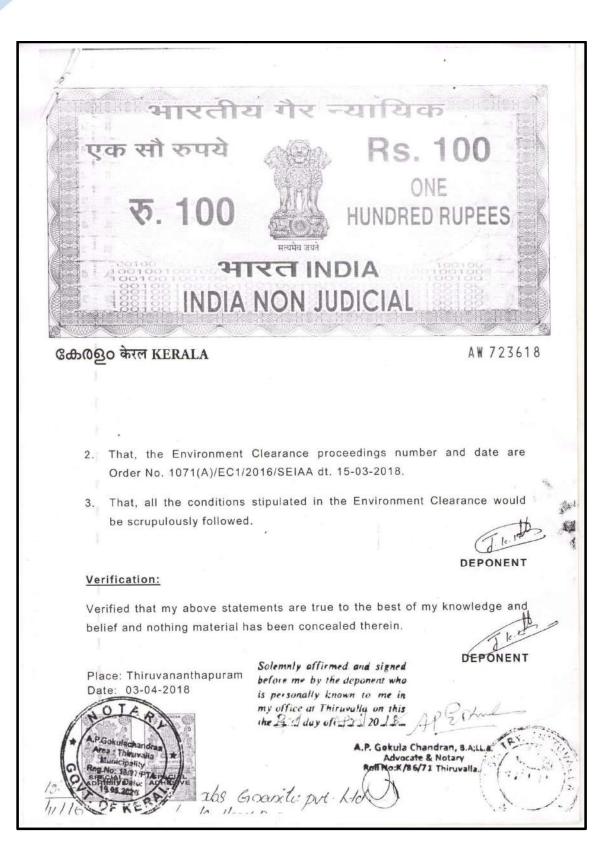
Mr. Jabu K. Abrahara, Managing Director M/s Poalss Granites Pet. 1td. Natteor P.O., Thiruvalle, Kotala-689106,, vide his application received on 02.11.2016 has sought Environmental Clearance under EIA Natification, 2006 for the quarry project in Survey No. 459/1-1pt., 459/2, 460/10, 12, 460/2-1pt., 460/2-2, 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., 447/3pt., 2. (pt., 452/5pt., 452/4. 6, 7, 8 of Percentada Village, Thiruvananthaperam Taluk, Thiruvananthaperam District, Kerala Sturp for an area of 14,5687 hootages. The project comes under Category D. Activity 1(a), (i) as per the Schedele of ETA Notification 2006 (since it is below 50 hectares) and as per O.M. No. 1-11011/47/2013-4/4.II(M) dated 182 May 2012 of Monstry of

SINDHUL

Charge Officer Zaniyoorkayu Zonal Mubicipal Gerechthan nhuvarar:

Page 1 c+ 13







POLUCHEM LABORATORIES (P) LTD. CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

TEST REPORT

Page 01 of 01

Client Name & Address	Certificate No:	PL/AMB/RT2090/2020
M/s Poabs Granites Pvt. Ltd	Date of issue:	10/01/2020
	Date of monitoring	03/01/2020 10.00 Hrs to 04/01/2020 10.00 Hrs
	Date of sample received:	04/01/2020
Peeroorkada,	Date of analysis	06/01/2020
Trivandrum.	Monitoring Location	M/s. Poabs Granites Pvt Ltd. 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 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	50.7 μg/m ³	100 μg/m³
02	Particulate Matter (PM _{2.5})	СРСВ	24.3 μg/m ³	60 μg/m³
03	Sulphur dioxide	I S 5182 Part 2 2001 RA 2017	12.6 μg/m ³	80 μg/m ³
04	Nitrogen dioxide	IS 5182 Part 06 2006 RA2017	11.7μg/m³	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