

**COMPLIANCE REPORT
TO
THE CONDITIONS OF
ENVIRONMENTAL CLEARANCE ORDER**

NO: 1108/EC/SEIAA/KL/2017

DT. 20 – 11 – 2017

**BY
STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA)
FOR
QUARRY PROJECT**

AT

**Survey Nos. 259/1, 256/4, 265/1, 272/1, 272/7, 272/6, 271/3, 271/6, 273/1,
270/1, 265/2, 271/2, 270/2, 269/2, 272/2-2, 273/3, 274/1-2, 268/9-2, 266/15,
266/24, 266/16-1, 266/16-2, 271/7-1, 271/7-2, 271/7-3, 272/5, 267/5, 268/2-1,
268/2-2, 268/3-2-1, 268/3-2-2, 268/5-2, 268/6, 268/7, 269/9-2, 268/8-1, 268/8-
2, 268/4, 268/4-2, 268/4-3, 271/4, 271/5**

**CHITHARA VILLAGE & PANCHAYAT, KOTTARAKKARA TALUK, KOLLAM
DISTRICT, KERALA**

**BY
POABS ENTERPRISES PRIVATE LIMITED
KOLLAI P.O.CHITARA, KOLLAM, KERALA**

(April 2018 - September, 2018)

INTRODUCTION

M/s Poabs Enterprises Pvt. Ltd. is a stone quarry situated at Sy. Nos. 259/1, 256/4, 265/1, 272/1, 272/7, 272/6, 271/3, 271/6, 273/1, 270/1, 265/2, 271/2, 270/2, 269/2, 272/2-2, 273/3, 274/1-2, 268/9-2, 266/15, 266/24, 266/16-1, 266/16-2, 271/7-1, 271/7-2, 271/7-3, 272/5, 267/5, 268/2-1, 268/2-2, 268/3-2-1, 268/3-2-2, 268/5-2, 268/6, 268/7, 269/9-2, 268/8-1, 268/8-2, 268/4, 268/4-2, 268/4-3, 271/4, 271/5, Chithara village, Kottarakkara Taluk, Kollayil P.O, Kollam District, Kerala. The quarry project was accorded with the environmental clearance by state Environmental Impact Assessment Authority on 20-11-2017. Six monthly compliance reports to the conditions of the environmental clearance are to be submitted as part of compliance. The compliance report to the specific and general conditions of the environmental clearance for the period of April, 2018 - September, 2018 (Second Report) is being submitted.

PART A – SPECIFIC CONDITIONS

➤ **Condition 1**

Quarry needs to reorient its mining operation following top to bottom approach.

✓ **Compliance**

The project team presently carrying out mining operation in a top to bottom approach.

➤ **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 will properly protect the plant species that are endemic to Western Ghats in situ or by transplanting to an appropriate location. We also plan to start a Nursery exclusively for endemic plant species.

PART B – GENERAL CONDITIONS

➤ Condition 1

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

✓ Compliance

In connection with the present project, company has provided rainwater harvesting system near the project area. Rainwater harvesting system consists of 3 concrete wells each having the capacity of 35350 liters and two harvesting tanks constructed with stone masonry wall having the capacity of 180000 liters each. Details of the rainwater harvesting system are as follows.

Sl. No.	Type	Length (m)	Width (m)	Height (m)	Diameter (m)	Capacity (L)
1	Tank constructed with stone masonry wall 1	15	12	1	-	180000
2	Tank constructed with stone masonry wall 2	15	8	1.5	-	180000
3	Concrete well 1	-	-	5	3	35350
4	Concrete well 2	-	-	5	3	35350
5	Concrete well 3	-	-	5	3	35350

Photograph of the rainwater harvesting system as enclosed at Annexure 1.

➤ Condition 2

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

✓ Compliance

An environmental monitoring cell was formed with Mr. Thomas Jacob (Director of the Company) as head of the monitoring cell and made functional. Meeting of monitoring cell is arranging monthly and discus

the status of the compliance of the specific and general conditions stated in the Environmental clearance order. The details of the monitoring cell members are given below.

Sl. No.	Post	Name
1	Head of the monitoring cell (Director of the Company)	Mr. Thomas Jacob
2	Head in charge (Environment)	Mr. Girish Menon
2	Senior Environmental Officer	Dr. Rinoy Varghese
3	Environmental Officer	Mr. Navin Xavier
4	Name of the environmental officer in charge at Site	Mr. K. Sambath Raj
5	Name of the officer of Environment, Health and safety at Site	Mr. Ramesh Iyyer
6	Name of the environmental consultant	M/s Environmental Engineers & Consultants Pvt. Ltd
7	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**

Natural vegetation including trees, shrub and herbs present along the sides of tarred road and parking areas. We have planted the area with less vegetation with trees, shrubs etc. and a nursery is maintaining for further plantations. Photograph showing the same is provided at Annexure 2. Details of the tree species planted as follows.

Sl. No.	Scientific Name	Common Name	Family
1	<i>Cassia fistula</i> L.	Indian Laburnum/ Kanikkonna	Fabaceae
2	<i>Mangifera indica</i> L.	Mango tree/ Mavu	Anacardiaceae
3	<i>Polyalthia longifolia</i> (Sonn.) Thwaites	Arnanamaram	Annonaceae
4	<i>Terminalia catappa</i> L.	Badam	Combretaceae
5	<i>Bauhinia tomentosa</i> L.	Manjamandaram	Caesalpiniaceae

➤ **Condition 4**

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

✓ **Compliance**

Solar energy devices such as solar lights and solar water heater has installed in the project area in connection with the above condition. A biogas plant was also established in association with the 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 the dust generated during Crushing & Screening operation, Company has installed fixed water sprinkling systems and dust suckers 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. Photograph showing the sprinkler system installed in tipper lorry is enclosed as Annexure 4

➤ **Condition 6**

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

✓ **Compliance**

Eco-restoration including the mine closure plan will perform at our own cost. Following the closure of the 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. As part of the same, we have stored the top soil and overburden in a prefixed area and started planting.

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

➤ **Condition 8**

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

✓ **Compliance**

As part of the Corporate Social Responsibility, the amount proposed by the company has been spending for various social activities.

➤ **Condition 9**

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

✓ **Compliance**

Barbed metal wire fencing has installed around the mining area with a height of 4 ft to prevent falling of animals/human/belongings/dumping of garbage's etc. All the boundary indicators (boards, stores, markings, etc.) has protected. Photograph showing the metal wire fencing and indicators boards are 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**

Warning alarm has installed in the project area and maintaining properly. The blasting time has fixed and is between 3.30pm and 3.30pm. A danger board indicating blasting time has installed in the project site. 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, equipments 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

Quarrying activities carrying out only during day time.

➤ Condition 13

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

✓ **Compliance**

Blasting

- ❖ **The controlled blasting is proposed by adopting all the safety measures as per “MMR 1961” and with the permission of DGMS.**
- ❖ **Blasting is carried out for the fragmentation of the granite within the project area. Multiple blast holes of 1.0 to 1.5 m depth 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 proposed. Therefore the requirement of explosive will be about 10kg/ blast.**

Blasting safeguard

- ❖ **Blasting in the open cast is done only during day time at designated hours.**
- ❖ **Only competent blasters are appointed to handle explosives.**
- ❖ **Explosives are stored in approved and licensed magazine as per explosive Act/ Rules.**
- ❖ **Explosives are brought from magazine to blasting site in licensed explosive van under the care of blaster.**
- ❖ **Sufficient warning signals are given before blasting the holes.**
- ❖ **Guards are posted on all roads and paths at least 250 m distance to stop entrance to the danger zone during the blasting hour.**
- ❖ **Controlled blasting is practiced to control vibrations and flying fragments.**
- ❖ **Optimum charge is used, while blasting near office complex/ infrastructure site.**
- ❖ **Maximum charge per delay is always being less than 10kg to limit the PPV levels within the DGMS standards of 15 mm/sec.**

➤ **Condition 14**

A licensed person should supervise/ control the blasting operations.

✓ **Compliance**

Licensed person is supervising the blasting operations. Licensed person authorization letter from DGMS is attached as Annexure 7.

➤ **Condition 15**

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

✓ **Compliance**

Access road to the quarry has tarred and maintaining well to contain dust emissions that may arise during transportation of materials. The photographs showing the same is given in Annexure 8.

➤ **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 has been storing in a prefixed location for the reclamation of mine pit as per mine closure plan/ specific condition. The photographs showing the same is given in Annexure 9.

➤ **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**

Quarry operation is carrying out in the form of benches. The proposed height and width of the benches are maintaining. The photograph showing the bench type mining is enclosed as Annexure 10.

➤ **Condition 18**

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

✓ **Compliance**

Various safety measures are setting down to prevent fly rocks cross the lease area. Blasting during unfavorable weather conditions has avoided. Maintain optimum delay sequence and stem to column ratio

to minimize the fly rock distance. Mats to prevent fly rock during blasting will arranged shortly.

➤ **Condition 19**

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

✓ **Compliance**

In the present quarrying project, the exploitation of mineral is from 300-145 m 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 will not carry out at regions having a slope greater than 45°.

➤ **Condition 21**

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

✓ **Compliance**

The entire project area has covered by thick green belt and this will reduce sound amplifications produced during mining activities. Crusher unit has covered by thick green belt and metal sheet envelop. Photograph showing the crusher unit covered by thick green belt and metal sheet covering is enclosed as Annexure 11. The noise level will be limited within the prescribed standards given by CPCB/KSPCB. Sound monitoring report is attached as Annexure 12.

➤ **Condition 22**

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

✓ **Compliance**

Workers are provided with personal protective devices such as earmuffs, ear plugs, helmet etc. at the site. Blasting shelters are also arranged in the mining site and the photograph showing the same is attached as Annexure 13.

➤ **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 has provided in the lower slopes around the core area to channelize storm water. The photograph showing the Garland drains with clarifiers is enclosed as Annexure 14.

➤ **Condition 24**

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

✓ **Compliance**

After loading, trucks are covered with tarpaulin sheets to control dust emissions during transportation. 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 at least 5 times of the loss that has been occurred while clearing the land for the project.

➤ **Condition 26**

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

✓ **Compliance**

Presently we are storing the spent oil under secure conditions. Disposal of spent oil from diesel engines will carried 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 15

➤ **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 within 100m distance

➤ **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 16.

➤ **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 17 and 18. Details of statutory approvals are given below.

Sl. No.	Annexure	Statutory approvals
1	17	License from Panchayat
2	18	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**

Regarding the accordance of environmental clearance to the quarrying activity has advertised in two local newspapers and the copy of the

same was submitted to SEIAA Kerala. Details of the newspaper advertisements are given below.

S1. No.	Annexure	Name of the Newspaper and edition	Dated
1	19	New Indian Express	29/11/2017
2	20	Mathrubhumi	29/11/2017

➤ **Condition 36**

A copy of the clearance letter shall be send by the proponent to concerned Grama panchayat/ District panchayat/ Municipality/ Corporation/ Urban local body and also to the Local NGO if any, from whom suggestions/ representations if any, were received while processing the proposal. The Environmental Clearance shall also be put on the website of the company by the proponent.

✓ **Compliance**

A copy of the environmental clearance order was submitted to the Panchayat office. The acknowledgement received is provided at Annexure 21. 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**

Second 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. Photograph showing the same is attached as Annexure 22.

➤ **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 SEIAA and the copy of the same is attached as Annexure 23.

➤ **Condition 40**

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

✓ **Compliance**

We will not make any change in mining technology and scope of work without prior approval of the SEIAA and further expansion or

modifications in the mines will not be carried out without prior approval of the SEIAA.

➤ **Condition 41**

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

✓ **Compliance**

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

➤ **Condition 42**

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

✓ **Compliance**

We are carrying out monitoring of Ambient Air Quality based on the notification 2009, as amended from the time to time by the Central Pollution Control Board. Water sprinkling has installed at places via loading and unloading points and transfer points to reduce fugitive emission. Ambient Air Quality monitoring Report is attached as Annexure 24.

➤ **Condition 43**

The top soil, if any, shall be temporarily be stored at earmarked site(s) only for the top soil shall be used for land reclamation and plantation. The overburden generated during the mining operation shall be stacked at earmarked dump site(s) only. The maximum height of the dump shall not exceed 8m and width 20m and overall slope of the dump shall be maintained to 45°. The O.B. dump should be scientifically vegetated with suitable native

species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for the stabilization of the dump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated area should continue until the vegetation become self-sustaining.

✓ **Compliance**

The area has earmarked for dumping the overburden generated during the mining operation. The maximum height of the dump will not exceed 8m and width 20m and overall slope of the dump will be maintained to 45°. The O.B. dump is scientifically 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. Photograph showing the overburden dumping area scientifically vegetated with suitable native species is attached as Annexure 25

➤ **Condition 44**

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

✓ **Compliance**

Catch drains and siltation ponds 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. Photograph showing the Storm water pond is attached as Annexure 26.

➤ **Condition 45**

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

✓ **Compliance**

Effective safe guard measures such as regular water sprinkling are being carried out in critical areas prone to air pollution and having high levels of PM₁₀ and PM₂₅ such as haul road loading and unloading points and transfer points. It will be ensured 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 being controlled regularly. Water spraying arrangements on haul roads, loading and unloading at transfer points has been arranged and properly maintained.

➤ **Condition 47**

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

✓ **Compliance**

Different measures are being taken 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 will keep in separate account and will 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 will carried 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**

We will monitor the flow rates and water quality upstream and downstream of the spring and perennial nallahs flowing in and around the mining lease area and it will reported in the six monthly reports to the SEIAA.

➤ **Condition 61**

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

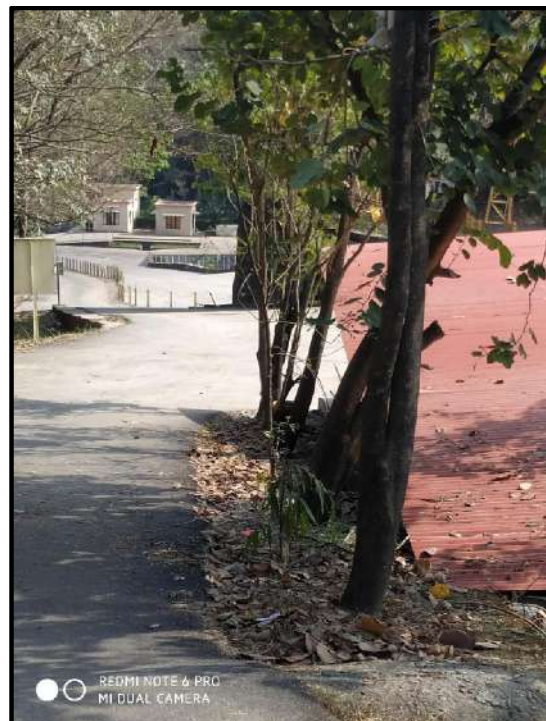
✓ **Compliance**

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

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 installed in tipper lorry

ANNEXURE 5




Photograph showing the metal wire fencing and indicators boards

ANNEXURE 6


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

ANNEXURE 7

BY REGISTERED POST



भारत सरकार/ Govt. of India
 श्रम एवं रोजगार मंत्रालय/ Ministry of Labour & Employment
 जन सुरक्षा महाविभाग/ Directorate General of Mines Safety
 बंगलुरु क्षेत्र, द.उ.,/Bangalore Region, SZ.



E-Mail : dgms@dgms.gov.in No.5, 17th Main, 100 ft Road, 4th Block
 Koramangala, Bangalore- 560034(Karnataka)
 Tel : 080-25535971-74 FAX: 080-25535972

सं./SZ/DGE/KRL/KOL/23/Ath-34(5)/P-164/2017-18/ 2,211 बंगलुरु, दिनांक, 19/12/2017.

प्रेषक,
 ज्ञान सुरक्षा निदेशक,
 बंगलुरु क्षेत्र, द.उ.।

सेवा में,
 श्री Ramesh S,
 Agent: Chithara Stone Mine,
 M/s Poabs Enterprises Pvt Limited,
 Punnoor Madom, Karunagappally,
 Kolleri Bhagom Post,
 Kollam, Kerala-690 546

विषय:- Authorization under Regulation 34(6) of MMR, 1961 in favour of Sri K. Sampath Raj, holder of Second class Manager's Certificate (Un-Restricted), to work as manager of Chithara Stone Mine of M/s Poabs Enterprises Pvt Limited, Kollayil Post Chithara, Kollam Dist, Kerala.

गोप्य,
 Please refer to your letter No.Nil dated 10.11.2016, on the above subject.

In view of what has been stated in your application, I, in exercise of the powers conferred on the Chief Inspector of Mines under the Provisions of Regulation 34(6) of the Metalliferous Mines Regulations, 1961 and by virtue of the authorization granted to me by the Chief Inspector of Mines (also designated as Director General of Mines Safety) under Section 6(1) of the Mines Act, 1952, do hereby authorize Sri K.Sampath Raj, holder of Second class Manager's (Un-Restricted) SMU/1592 dated 03.06.2002, to act as Manager of Chithara Stone Mine of M/s Poabs Enterprises Pvt Limited, Kollayil Post Chithara, Kollam Dist, Kerala, for a period up to 13.12.2018 subject to the following conditions:

1. Manager shall not take up any appointment in any capacity whatsoever in another mine.
2. If required, deep hole drilling machinery not exceeding 100 mm diameter may be deployed with maximum two loading machines with tippers in the mine.
3. In case, deep hole blasting with hole diameter not exceeding 100mm has to be conducted, it shall be carried out under the personal supervision of the manager. Blasting parameters of each blast with a sketch showing the drilling pattern and the holes charged shall be maintained in register kept for the purpose for each blast.
4. The average daily employment of persons at the mine shall not exceed 100 in all, underground workings shall not be made and consumption of explosives per day shall not exceed 500Kgs.

ANNEXURE 8



Photograph showing the tarred Access road to the quarry

ANNEXURE 9

Photographs showing top soil storage area

ANNEXURE 10

Photograph showing the Bench Type Mining

ANNEXURE 11

Photograph showing the crusher unit covered by thick green belt and metal sheet envelop

ANNEXURE 12


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	Certificate No:	PL/RT/SD/5122/2018
M/s Poabs Enterprises Pvt. Ltd Kottarakkara Kollam	Date of issue:	08/06/2018
	Date of monitoring	01/06/2018 11.00 Hrs to 02/06/2018 11.00 Hrs
	Monitoring Location	M/s. Poabs Enterprises Pvt Ltd. Sy.No.272/5,271/4,271/5,271/6,270/2,274/1-2, 273/3,273/1,272/7,272/2-2,270/1,271/3 & 272/1 Village: Chithara Panchayath: Chithara Taluk:Kottarakara District :Kollam,Kerala
	Sample Description	Ambient Sound Level (Leq)
Monitoring Location	Time	Results
Near East side boundary	11.00 Hrs	50.3 dB (A)
	12.00 Hrs	51.2 dB (A)
	13.00 Hrs	49.8 dB (A)
	14.00 Hrs	50.2 dB (A)
	15.00 Hrs	49.4 dB (A)
	16.00 Hrs	50.1 dB (A)
	17.00 Hrs	51.3 dB (A)
	18.00 Hrs	48.3 dB (A)
	19.00 Hrs	46.7 dB (A)
	20.00 Hrs	45.1 dB (A)
	21.00 Hrs	41.3 dB (A)
	22.00 Hrs	40.3 dB (A)
	23.00 Hrs	39.8 dB (A)
	00.00 Hrs	37.4 dB (A)
	01.00 Hrs	34.7dB (A)
	02.00 Hrs	33.8dB (A)
	03.00 Hrs	33.7 dB (A)
	04.00 Hrs	39.8dB (A)
	05.00 Hrs	42.3 dB (A)
	06.00 Hrs	44.2 dB (A)
	07.00 Hrs	45.6 dB (A)
	08.00 Hrs	46.7 dB (A)
	09.00 Hrs	48.4 dB (A)
	10.00 Hrs	49.8 dB (A)
Leq (Day time)		50.4 dB (A)
Leq (Night time)		34.7 dB (A)

*End of the Report *

For Poluchem Laboratories (P) Ltd.

Authorized Signatory

 SREEJA RAMESH
QUALITY MANAGER
POLUCHEM LABORATORIES (P) LTD.

ANNEXURE 13

Photograph showing Blasting Shelter installed in the project area


ANNEXURE 14

**Photographs showing storm water channels with de-siltation trap
(Check dam like)**

ANNEXURE 15

Photograph showing the Explosives magazines built in an isolated area

ANNEXURE 16



KERALA STATE POLLUTION CONTROL BOARD

FILE NO. : PCB/KO/CTO/G/280/2013
Date of issue : 28/04/2017

INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No : PCB/KO/CTO/R2/281/2017

Ref : Consent No. PCB/KO/CTO/R1/281/2015 dated: 06.11.2015.

The 'Integrated Consent to Operate' issued as per reference above to M/s Poabs Enterprises(P) Ltd, Chakkamala, Kolayil P.O., Chithara, Kottarakkara, Kollam-691 541 is hereby renewed up to 31/03/2020 and issued to Poabs Enterprises (P) Ltd, Chakkamala, Kolayil P.O., Chithara, Kottarakkara, Kollam-691 541. The consent(s)/ variation order(s) cited under reference is 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	Validity	31.03.2020
2	Category	Red
3	Capital Investment (Rs. In lakhs)	₹ 94
4	Annual fee	₹ 15000/-
5	Fee remitted	₹ 52500/-
6	Activity/Product/day	Rock Quarrying @ 42000 Sq Mtr

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)	

Kerala State Pollution Control Board, District Office, Kollam



Page 1

III. CONDITIONS

1. The consent is issued only with respect to the powers vested under the Water Act 1974, Air Act 1981 and Rules thereunder.
2. This Integrated Consent to Operate (Renewal), unless withdrawn earlier and subject to condition no.2.1 shall be valid up to **31.03.2020**. For continuing to operate beyond the validity date application for the renewal has to be submitted through online (website : krocmms.nic.in) before **31.12.2019**.
3. A distance of 100m shall be maintained from the quarrying area to nearby residences/other buildings/ roads with public transport system/ river/ lake/ bridge.
4. This consent is issued based on the order no. 35/SEIAA/KL/6090/2012 dated 14.11.2012 of the State Environment Impact Assessment Authority of Kerala and is valid only when all other statutory/ necessary clearances from other concerned authorities are valid. The Quarrying shall be done after obtaining clearance from all concerned authorities.

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

DATE : 28/04/2017

SIGNATURE & SEAL OF ISSUING AUTHORITY

Bindhu Radhakrishnan
Environmental Engineer




To


Sri. Joseph Jacob,
Managing Director
Poabs Enterprises (P) Ltd,
Chakkamala,
Chithara,
Kottarakkara,
Kollam-691 541.

Kerala State Pollution Control Board, District Office, Kollam

SECRETARY (ആവശ്യം)
CHITRAKOOTAM, KOLLAM DIST. KERALA, INDIA
Mob: 9048450310

	
നമ്പർ A ₂ -1216/14 ചിന്ത ഗ്രാമപഞ്ചായത്ത്	
1994 ലെ കേരള പഞ്ചായത്ത് രാജ് ആക്ട് (1994 ലെ 19) 232, 233, 234, 254 എന്നീ വകുപ്പുകൾ പ്രകാരവും അതേ തുടർനുള്ള ചട്ടങ്ങളും അനുസരിച്ചുകൊടുത്ത	
ലൈസൻസ്	
ലൈസൻസുടമസ്ഥന്റെ പേരും മേൽവിലാസവും	ഭജാമിർ ഭജാമിർ (ഭജാമിർ ഡെവ്ലപ്മെന്റ്) പ്രൈവറ്റ് ലിമിറ്റഡ് (PVT LTD) മി.ജി.എ. മി.ജി.എ.
ഏതാവശ്യത്തിന് ലൈസൻസ് അനുവദിച്ചു എന്ന്	2000. ഡി. 2000. 2000. 2000.
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡ് നമ്പരും	ട്രാ. No: 297/2, 314, 270/2, 269/2, 272/2, 273/3, 274/2
ലൈസൻസിന്റെ കാലാവധി	2014 - 2019
ലൈസൻസ് ഫീസ്	122500/- രൂപ പൈസ
റിമാർക്സ്	Rf. No: 11301105249
ചിന്ത ഗ്രാമപഞ്ചായത്ത്	
തീയതി 27.03.2014	സെക്രട്ടറി SECRETARY (ഗ്രാമപഞ്ചായത്ത്) CHITHAM DIST. KERALA, INDIA Mob: 9048456510

ANNEXURE 18



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

संख्या (No.): E/SC/KL/22/1537(E64133) दिनांक (Date): 17/02/2016

सेवा में, To,
✓ श्री JOSEPH JACOB, Managing Director,
M/s. POABS ENTERPRISES PVT LTD., Kuttloor Post, Tiruvalla, Town/Village - Tiruvalla
District-PATHANAMTHITTA, State-Kerala. Pincode - 689106

विषय: Survey No.268/5/2 of Block No.56, ग्राम Chithara(v), Kottarakkara-Taluk, जिला KOLLAM, राज्य Kerala में विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुज्ञप्ति सं E/SC/KL/22/1537(E64133) के नवीनीकरण संदर्भ में।

Subject: Possession for Use of Explosives from magazine situated at Survey No.:268/5/2 of Block No.56, Chithara(v), Kottarakkara-Taluk, Dist. KOLLAM, Kerala -Licence No.: E/SC/KL/22/1537(E64133) granted in Form LE-3 of Explosives Rules, 2008 - Renewal regarding

महोदय | Sir,


आपका उपर्युक्त विषय पर पत्र संख्या nil दिनांक 22/01/2016 का संदर्भ ग्रहण करें। विस्फोटक नियम, 2008 के अंतर्गत प्रत्येक LE-3 में जारी अनुज्ञप्ति दिनांक 31/3/2021 तक नवीनीकृत कर इस पत्र के साथ भेजी जा रही है।
Reference to your letter No.: nil dated: 22/01/2016, the subject licence duly renewed upto 31/3/2021 and issued in Form LE-3 of Explosives Rules, 2008 is forwarded herewith

Conditions:
1). VALID AUTHORIZED QUARRY PERMIT IN THE NAME OF THE LICENSEE FOR BLASTING OPERATIONS AND LOCAL STATE GOVERNMENT AUTHORITIES APPROVAL/ENVIRONMENTAL CLEARANCE AS APPLICABLE AND RENEWED FROM TIME TO TIME SHALL BE IN POSSESSION. 2. IF ANY CHANGE OF QUARRY OR ADDITIONAL QUARRY IS INVOLVED, NECESSARY PRIOR APPROVAL/ENDORSEMENT SHALL BE OBTAINED FROM THE LICENSING AUTHORITY. 3. OPENING OF QUARRY SHALL BE INFORMED TO THE DGMS AND BLASTING OPERATIONS SHALL BE CONDUCTED AS PER MINES ACT. 4. APPROVED BLASTER SHALL BE APPOINTED IN THE QUARRY FOR BLASTING. 5. ALL RECORDS OF USE OF EXPLOSIVES IN RE-3, RE-5, RE-7 RE-13 SHALL BE MAINTAINED. 6. DAILY PASS FOR USE OF EXPLOSIVES (RE-13) SHALL BE GENERATED ONLINE.

अनुज्ञप्ति के आगामी नवीकरण हेतु कृपया निम्नलिखित दस्तावेज दिनांक 31/03/2021 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 31/3/2021.

- प्रत्येक आरई-1 में विधिवत पूर्ण एवं हस्ताक्षरित आवेदन।
Application in Form RE-1 duly filled in and signed
- एक से पांच वर्ष के अनुज्ञप्ति शुल्क का बैंक ड्राफ्ट। बैंक ड्राफ्ट किसी भी राष्ट्रीयकृत बैंक के नाम आहरित, संयुक्त मुख्य विस्फोटक निबंधक, 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 पत्रन के साथ मूल अनुज्ञप्ति।
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 (डिमांड) 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 वार्षिक 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 ऑपरेशन 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 ऑपरेशन 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 रु. 500/- की राशि शेष है जो इस संदर्भ को उद्धृत करते हुए भविष्य के संव्यवहार में समायोजित की जा सकती है।
An amount of Rs. 500/- balance is in your credit, which may be utilized for future transaction by quoting this reference.

भवदीय | Yours faithfully

(एस.एम.कुलकर्णी | S.M. Kulkarni)
विस्फोटक निबंधक | Controller of Explosives
कृते उप मुख्य विस्फोटक निबंधक | For Dy. Chief Controller of Explosives
कोट्टी | Ernakulam
एरनाकुलम | Ernakulam

प्रतिलिपि भेजित | Copy Forwarded to:
1. जिला मजिस्ट्रेट (District Magistrate), KOLLAM (Kerala)- सूचना के लिए (for information.)
कृते उप मुख्य विस्फोटक निबंधक | For The Dy. Chief Controller of Explosives,
कोट्टी | Ernakulam

अनुज्ञप्ति प्रकृप एन.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 I 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 magazineअनुज्ञप्ति सं. (Licence No.): E/SC/KL/22/1537(E64133)
वार्षिक फीस रुपए (Annual Fee Rs): 3000/-

1. Licence is hereby granted to

Shri. JOSEPH JACOB, Managing Director, (अधिभोगी / Occupier : Joseph Jacob, Managing Director, Poabs Enterprises Pvt Ltd), M/s. POABS ENTERPRISES PVT LTD., Kuttoor Post, Tiruvalla, Town/Village : (निवासी स्थान)
District-PATHANAMTHITTA, State-Kerala, Pincode - 689106

को अनुज्ञप्ति अद्वितीय की जाती है।

2. अनुज्ञप्तिधारी की प्रस्थिति | Status of licensee : Company

3. अनुज्ञप्ति निम्नलिखित प्रयोजनों के लिए विधिमार्ग है।

Licence is valid only for the following purpose.

4. अनुज्ञप्ति विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमार्ग है।

Licence is valid for the following kinds and quantity of explosives: - (क) (a)

क्र. सं.	नाम और विवरण	क्लास & डिवीजन	उप-प्रभाग	मात्रा किसी एक समय में
Sr. No.	Name and Description	Class & Division	Sub-division	Quantity at any one time
1.	Nitrate Mixture	2, 0	0	300 Kg.
2.	Safety Fuse	6, 1	0	5000 Mtrs
3.	Ordinary Detonator	6, 3	0	2000 Nos.
4.	Electric 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]

20 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।

रेखाचित्र क्र. (Drawing No.) E/SC/KL/22/1537(E64133)

The licensed premises shall conform to the following drawing(s) :

दिनांक (Dated) 13/02/2013

6. अनुज्ञप्ति परिसर निम्नलिखित पते पर स्थित है। The licensed premises are situated at following address:

Survey No. 268/5/2 of Block No.56, ग्राम (Town/Village) : Chithara(v), Kottarakkara-Taluk

जिला (District)

KOLLAM

दूरभाष (Phone)

04743294866

राज्य (State)

Kerala

ई.मेल (E-Mail)

mail@poabs.com

पुलिस थाना (Police Station) : Kollam

पिनकोड (Pincode)

691541

फैक्स (Fax)

7. अनुज्ञप्ति परिसर में निम्नलिखित सुविधाएं अंतर्भूत हैं।

Type A. magazine-Lobby, HE and Detonator rooms

The licensed premises consist of following facilities.

8. अनुज्ञप्ति समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपबंधों के अधीन रहते हुए अनुज्ञप्ति 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 प्रकृप DE-2 | Distance Form DE-2.

9. यह अनुज्ञप्ति तारीख 31 मार्च 2016 तक विधिमार्ग रहेगी। This licence shall remain valid till 31st day of March 2016.

यह अनुज्ञप्ति, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपबर्णित इस अनुज्ञप्ति की शर्तों का अधिकरण करने या यदि अनुज्ञप्ति परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिनियुक्त 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.

तारीख | The Date - 13/02/2013

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

Amendments :

• Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 27/06/2013

नवीनीकरण के पृष्ठानक के लिए स्थान
Space for Endorsement of Renewalनवीनीकरण की तारीख
Date of Renewalसमाप्ति की तारीख
Date of Expiryअनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प
Signature of licensing authority and stamp

17/02/2016

31/03/2021

Dy. Chief Controller of Explosives, Ernakulam

कुल्लम उप मुख्य विस्फोटक नियंत्रक
For Deputy Chief Controller of Explosives
एरनाकुलम Ernakulam

ANNEXURE 21

Chithara Grama Panchayat		A8039354
Phone:		
ACKNOWLEDGEMENT (Not for Cash Transactions)		
No.	9233	Year 2017
Date of Receipt	30/11/2017	
Name of Applicant	poabs enterprises pvt ltd, kollayil	
Subject	environment clearance survey no 259/1 and others	
Remarks	B2	
Counter No. & Staff	30/11/2017 10:36:26AM	
		Secretary

KREWS (GLM, KANJIKODE) 2014
Cheques are subject to realisation

ANNEXURE 22




Photograph showing the Details of the environmental clearance prominently displayed in a metallic board

ANNEXURE 23

भारतीय गैर न्यायिक

**पचास
रुपये**

रु.50



भारत

INDIA

**FIFTY
RUPEES**

Rs.50


INDIA NON JUDICIAL

കേരളം KERALA AR 844948

Affidavit

I, Thomas Jacob, Kuttoor Village, Thiruvalla Taluk,
Pathanamthitta District, Kerala state do hereby solemnly affirm
and state as follows.

I am the Director of M/s Poabs Enterprises Pvt. Ltd. and
empowered to swear this affidavit for and on behalf of the said
company.




2210: 7512
17.10.2017

അഫ്ഫിഡവിറ്റ് ചെയ്തത്
അഡ്വക്കേറ്റ്. ജെ.എസ്. ഗോകുലചന്ദ്രൻ
എസ്.എസ്. ടി.എസ്. ടി.എസ്. ടി.എസ്.

A.P. Gokula Chandran

A.P. Gokula Chandran, B.A;LL.B.
Advocate & Notary
Roll No:K/86/71 Thiruvalla.



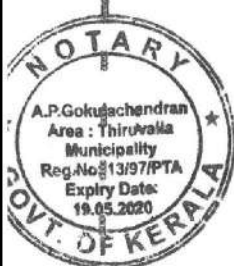
Page 1 of 4



കേരളം KERALA

AR 844949

1. We have applied for environmental clearance certificate for conducting quarry operations at Survey Nos. 259/1, 256/4, 265/1, 272/1, 272/7, 272/6, 271/3, 271/6, 273/1, 270/1, 265/2, 271/2, 270/2, 269/2, 272/2-2, 273/3, 274/1-2, 268/9-2, 266/15, 266/24, 266/16-1, 266/16-2, 271/7-1, 271/7-2, 271/7-3, 272/5, 267/5, 268/2-1, 268/2-2, 268/3-2-1, 268/3-2-2, 268/5-2, 268/6, 268/7, 269/9-2, 268/8-1, 268/8-2, 268/4, 268/4-2, 268/4-3, 271/4, 271/5, Chithara Village, Kottarakkara Taluk, Kollam District, Kerala.



210:7513
17-10-2017

അപ്ലൈഡ് ക്വറിയിംഗ് ഓപ്പറേഷൻ
യെക്കുറിച്ചുള്ള പരിസ്ഥിതി മലിനീകരണ
പരിശോധനാ റിപ്പോർട്ട്
എന്നതുകൂടി

A.P. Gokulachandran

A.P. Gokula Chandran, B.A.; LL.B.
Advocate & Notary
Roll No: K/86/71 Thiruvalla.

കടപ്പാട് അറിയിക്കുന്നു
17.10.2017





കേരളം KERALA

AR 844950

2. We will implement CSR Actives as explained in the proposal or as directed by the SEIAA.
3. All the general and specific conditions imposed by SEIAA will also be complied.
4. If any rare, endemic and threatened plant species are noticed, they shall be properly protected insitu or transplanted to a suitable site inside the lease area.



DEPONENT

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

21017514
17.10.2017

അപ്രകാരം, കോടതി മേൽക്കൽ
വശമാക്കിയ പോലീസ് ഓഫീസ് ഓഫീസർ
ലിഖിതം. തീർപ്പ് P.O. തുടങ്ങി

കുടുംബ നിയമം
- 17.10.2017





കേരളം KERALA

AR 844951

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: Kollam

Date: 17/10/2017

Solemnly affirmed and signed before me by the deponent who is personally known to me in my office at Thiruvalla on this the 17th day of 10/2017.

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



210:7515
17.10.2017

അപ്രകാരം കേരളം കോളം
അതിന്റെ 24 പേജ് കണ്ടുകിട്ടിയിട്ടു
ഇതിനെക്കുറിച്ച് പ. 00105

കുറിപ്പ് നോട്ടറി
എ. എ. 2017



ANNEXURE 24


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	Certificate No:	PL/AMB/RT/5119/2018
M/s Poabs Enterprises Pvt. Ltd Kottarakkara, Kollam	Date of issue:	08/06/2018
	Date of monitoring	01/06/2018 11.00 Hrs to 02/06/2018 11.00 Hrs
	Date of sample received:	02/06/2018
	Date of analysis	04/06/2018
	Monitoring Location	M/s. Poabs Enterprises Pvt Ltd. Sy.No.272/5,271/4,271/5,271/6,270/2,274/1-2, 273/3,273/1,272/7,272/2-2,270/1,271/3 & 272/1 Village: Chithara Panchayath: Chithara Taluk:Kottarakara District :Kollam,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 2006	49.6 µg/m ³	100 µg/m ³
02	Particulate Matter (PM _{2.5})	WI/AMB2.5/01	19.8 µg/m ³	60 µg/m ³
03	Sulphur dioxide	I S 5182 Part 2 2001	9.7 µg/m ³	80 µg/m ³
04	Nitrogen dioxide	IS 5182 Part 06 2006	8.3 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.

ANNEXURE 25

Photograph showing the overburden dumping area scientifically vegetated with suitable native species and foot walls

ANNEXURE 26

Photograph showing the Storm water pond