

COMPLIANCE REPORT

OCTOBER 2020 – MARCH 2021

M/S Tripthy Granites

Palakkad District

Kerala

TRIPHY GRANITES

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Pallippadam
Chazhiyattiri P.O.
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Dt. 12-05-2021

The Additional Principal Chief Conservator of Forests (C)

Ministry of Environment, Forests & Climate Change,
4th Floor, E& F Wing, Kendriya Sadan,
Koramangala, Bangalore - 560034

Ref :- File No. 826/SEIAA/EC1/2609/2015

**Sub :- Environment Clearance – Quarry project at Thirumittacode-II,
Thirumittacode Panchayat, Pattambi Taluk, Palakkad District, Kerala –
Compliance Report – Second half – Reg.**

Respected Sir,

The Quarry (Building stone) project was accorded Environmental Clearance for **4.7811 Ha.** by order No. **826/SEIAA/EC1/2609/2015** dated 17/08/2016 by State Environmental Impact Assessment Authority, Kerala. The compliance report of **Second Half** (October 2020 – March 2021) to the specific and general conditions of the Environment Clearance order is enclosed.

Thanking you,

Yours respectfully,

For TRIPHY GRANITES
Partner

M/s Triphy Granites

Encl: - As Above

Copy to : The Chairman & The Member Secretary
State Environment Impact Assessment Authority (SEIAA)
Thiruvananthapuram,

COMPLIANCE REPORT

TO

THE CONDITIONS

OF

ENVIRONMENTAL CLEARANCE ORDER

NO: 826/SEIAA/EC1/2609/2015

Dated: 17-08-2016

BY

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA)

FOR

BUILDING STONE QUARRY

(MINOR MINERAL MINING) PROJECT

AT

SURVEY NOS. 274, 275/1A3

THIRUMITTACODE-II, THIRUMITTACODE PANCHAYAT,

PATTAMBI TALUK, PALAKKAD DISTRICT,

KERALA

BY

M/S TRIPTHY GRANITES

PALAKKAD DISTRICT

KERALA

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INTRODUCTION

The quarry project of **M/s Tripthy Granites** is situated at Survey Nos. 274, 275/1A3, Thirumittacode-II, Thirumittacode Panchayat, Pattambi Taluk, Palakkad District, Kerala.

The quarry project was accorded with the Environmental Clearance (EC) by State Environmental Impact Assessment Authority on 17-08-2016. As part of general condition No.37 of Environmental Clearance order, half yearly compliance report needs to be submitted by the project proponent. The compliance report of Second half to the specific conditions and general conditions of the Environmental Clearance order for the period of **October 2020 – March 2021** is being submitted.

COMPLIANCE REPORT

(SPECIFIC CONDITIONS)

PART A

PART - A – SPECIFIC CONDITIONS

01	Over burden should be stored in a planned manner in the designated place. It must be protective support and no soil be taken outside the lease area.	complied
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Compliance:

The overburden materials are stored within the site at designated place. This is being used for plantation, haulage roads and land filling in the mining area. No overburden will let out from the project site.

02	The drainage from the quarry should be channeled through a settling tank.	Being complied
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Compliance:

To manage storm water, there are natural drainages in the project site for channelization of storm water. To settle down the sediments at the bottom of the pond the project is constructing settling tank.

03	The approach road to the quarry from the main road is not maintained at all. This road must be maintained in good motoroble condition by the proponent.	Being Complied
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Compliance:

At present the approach roads are motoroble condition with more than 7 meters of width. The project is maintaining the approach road to the quarry from the main road.

04	Dust suppression mechanism must be in place	complied
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Compliance:

The project proponent deployed a vehicle to splashes the haulage road and critical areas in regular intervals to arrest dust emissions from the road while

transportation of materials. To prevent dust emission, sprinklers are installed in the project site. This help to suppress dust during the time summer season.

05	Fencing shall be provided at vulnerable points of the quarry to avoid accidents.	Complied
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Compliance:

The project proponent has erected barbed metal wire fencing around the mining area and at the critical area and at vulnerable points of the quarry to avoid accidents. This will help to prevent falling of animals/human being/dumping of garbage etc,

06	Sign boards should be fixed in the proper places	Complied
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Compliance:

The sign boards are fixed in the project site in proper places to provide necessary warning to the labours and humans. The project is intending to fix sign board where ever it is necessary.

COMPLIANCE REPORT

(GENERAL CONDITIONS)

PART B

PART – B – GENERAL CONDITIONS

01	Rain Water Harvesting capacity should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified.	Complied
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Compliance:

Even though it is not specified in KMBR/KPBR to collect rain water in mining area, the proponent has developed rain water harvesting pond in the project site to collect rain water falling in the entire mining area. The storm water from all mining areas is properly channelized to this pond. It is situated in the lowest level of quarry area. The rain water is used for irrigation purposes, watering of plants, wetting of roads and for dust suppression system (mainly sprinklers system). The photograph showing the rain water collection pond in the project area is attached in **Plate No. 1**.

02	Environment Monitoring Cell (EMC) as agreed under the affidavit filed by the proponent should be formed and made functional.	Complied
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Compliance:

The Environmental Monitoring Cell (EMC) formed and made functional with Mr. Benny Pathrose as head of the monitoring cell. The EMC meeting arranges regularly for a sustainable environment. The members of EMC is mentioned below

TABLE 1 - ENVIRONMENTAL MONITORING CELL (EMC)

Sl. No.	Post		Name
1.	Head of the monitoring cell	:	Benny Pathrose
2.	Member		. Baby K V
3.	Member		Basil Varghese

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

Green belt is an important component in the mining sector. To reduce air and noise pollution, the project proponent has planted suitable avenue trees along either side of the road. There is also natural vegetation including trees, shrubs and climbers are presents in the project area. This will help to reduce air and sound pollution.

Table 2 - Details of the natural vegetation existing along the road side

Sl. No.	Scientific Name	Common Name	Family	Type
1.	Artocarpus heterophyllus	Plavu	Moraceae	Tree
2.	Nerium oleander	Arali	Apocynaceae	Small tree
3.	Tectona grandis	Thekku	Verbenaceae	Tree
4.	Chromolaena odorata	Communist-pacha	Compositae	Shrub
5.	Mangifera indica	Mavu	Anacardiaceae	Tree
6.	Ziziphus oenopolia	Thodalli	Rhamnaceae	Climber
7.	Swietenia macrophylla	Mahogany	Meliaceae	Tree

04	Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.	Complied
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Compliance:

The installation of solar panel can reduce the consumption from conventional sources therefore the project proponent has installed solar panels to use maximum renewable energy to reduce electrical consumption from KSEB.

05	Sprinklers shall be installed and used in the project site to contain dust emissions.	Complied
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Compliance:

The project proponent splashes the haulage road and critical areas with the help of vehicles in regular intervals to arrest dust emissions from the road while transportation of materials. Sprinklers are also installed in the project site.

06	Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.	Being complied
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Compliance:

Eco restoration is an integral part of mining activity. The eco restoration and the mine closure plan will be done at the own cost of the project proponent as per the approved mining plan.

07	At least 10 percent out of the total excavated pit area should be retained as water storage areas 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 EC.	Noted
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Compliance:

The project proponent will retain 10 percent of total excavated pit as rain water storage area. The remaining area will be reclaimed with stacked dumping of overburden and top soil. As part of its eco – restoration plan, the project will plant indigenous plant species that are eco – friendly on the reclaimed area.

08	Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented.	Complied
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Compliance:

As part of inclusive growth of the community, the project proponent executes various activities under Corporate Social Responsibility/ Corporate Environmental Responsibility of the firm with the consultation of Panchayath.

09	The lease area shall be fenced off with barbed wires to a maximum 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.	Complied
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Compliance:

To demarcate the lease area, the project proponent has installed fencing around the area where lease obtained. The complete installation of barbed metal wire fencing around the mining area is with height of 4 ft. The photograph of barbed metal wire fencing is provided in **Plate No.2**. Sign boards are attached as **Plate No. 3**.

10	Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.	complied
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Compliance:

To comply condition stipulated by Explosive department and Environmental clearance order, the project proponent has installed warning alarms in the quarry site. Photograph of warning alarm is attached as **Plate No. 4**.

11	Control measures on noise and vibration prescribed by KSPCB should be implemented.	Complied
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Compliance:

The project proponent has implemented mitigate masseurs. The major noise generating sources from the mining activity is working machineries, drilling, blasting and plying of vehicles. The following control measures are undertaken to bringing down the noise levels:-

- Proper maintenance of machinery and equipments
- The machineries like breaker and excavator has well sound proof cabin so that the machine operators can work without stress due to the sound.
- Personal protective devices i.e., ear plugs are provided to workers working in high noise areas.
- The mining activity held in day time only.
- Noise level at quarry site checked periodically.

Blast vibrations and control measures

- ❖ Controlled blasting technique is adopted in this project in order to reduce blast vibrations.

- ❖ Ordinary delayed detonators are using for the blasting
- ❖ 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.

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

To reduce the adverse impact of the quarry to the local community, quarrying activities are limited to day time only as per KSPCB guidelines. The quarry working time is 6.30am to 4.30 pm. This will help to limit the sound pollution.

13	Blasting should be done in a controlled manner as specified by the regulations of explosives department or any other concerned agency.	Complied
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Compliance:

To reduce possible accidents and adverse impact, the blasting is done in controlled manner by using ordinary delayed detonators. All blasting activities are carrying out with the stipulated guidelines of explosive department and other concerned agency.

14	A licensed person should supervise/control the blasting operations.	Complied
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Compliance:

To monitor the mining activities, the project proponent has appointed experts having certificate of Foreman and Second Class Manager for supervise/control the blasting operations for the extraction of granite building stones. Same is attached as **Annexure No. 6**

15	Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.	Being Complied
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Compliance:

To contain dust emissions and for the trouble free transportation of materials, the project proponent has maintaining the access road to the quarry site. The project proponent splashes water on the road to arrest the dust production during summer season. The project proponent is regularly maintaining the access road in a good manner. The photograph of road is attached as **Plate No. 2**.

16	Overburden materials should be managed within the site and used for reclamation of mine pits as per mine closure plan/ specific conditions.	Complied
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Compliance:

Overburden is an inevitable byproduct of building stone quarry. There is no old quarry in the site for restoration. The overburden materials are stored within the site at designated place. This will be used to restore the exploited area in future.

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 conditions.	Complied
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Compliance:

All mining activities are progressing under the supervision of qualified personals. To enhance safety and to make environment friendly quarrying, the excavation activity in the project is progressing by creating benches of 5m width x 5m height. **Plate No.5** showing the work progressing in the quarry area.

18	Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.	Noted
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Compliance:

The project proponent is using blasting mat to reduce fly rocks during blasting. The project is using ordinary delayed detonator for blasting therefore there is no issue

with fly rock in the community and the project is also assure the maximum PPV is under 10.

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

The project proponent will follow the approved mining plan for the exploration of building stone. Therefore mining depth will not exceed beyond 10 meter or not below the level of the nearest stream bed, whichever is less.

20	No mining operations should be carried out at places having a slope greater than 45°.	Noted
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Compliance:

No mining operation will carry out with a slope greater than 45°.

21	Acoustic enclosures should be 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.	Being Complied
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Compliance:

To reduce sound amplification, the machines of crusher unit is housed with solid bricks. A green belt is also developed around the unit to reduce noise and air pollution. This helps the noise and sound level is kept within the prescribed standards. The labours in the unit are wearing ear plugs to reduce the impact of noise generating from the machines. The project proponent is maintained all machineries in a good manner. Photograph of Crusher is attached as **Plate No. 6**

22	The workers on the site should be provided with the required protective equipments such as ear muffs, helmet, etc.	Complied
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Compliance:

The project proponent has provided adequate Personnel Protective Equipments (PPE) such as helmets, ear muffs, safety belts, gloves, etc. to labours in the quarry site in order to ensure the safety of workers in working site.

23	Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.	Being Complied
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Compliance:

The project proponent has constructed de siltation traps at project site for clarification of storm water and ensures that all storm water from the mining area is flowing in to the pond created at mining area. The project proponent has initiated steps to create garland drains where it is necessary in the lower slopes of the project area for storm water management. At present the pond is working as a clarifier.

24	The transportation of minerals should be done in covered trucks to contain dust emissions.	complied
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Compliance:

The project proponent assure that the loaded trucks are covered with appropriate sheets to avoid dust emission from the vehicle while transportation of materials.

25	The proponent should plant trees at least 5 times of the loss that has occurred while clearing the land for the project.	Being complied
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Compliance:

As part of concurrent eco restoration, the project proponent has planted various saplings in the project area as a compensation of loss of trees while clearing the land for mining.

26	Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations.	complied
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Compliance:

The project proponent is using the used oil as lubricant for machineries and other equipments. Disposal of spent oil from diesel engines will be sold only to the approved recyclers as specified under relevant Rules/Regulations.

27	Explosives should be stored in magazines in isolated place specified and approved by the explosives department.	complied
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Compliance:

As part of safety, Explosives are stored in magazine. The magazine situated in an isolated place specified and approved by the explosives department. The area surrounded to the magazine was fenced with barbed metal wire. The photograph of the magazine is provided as **Plate No.7**.

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

To keep a safe zone to the residents, community resource and public infrastructure, the norms of Kerala State Pollution Control Board regarding the distance criteria of houses, roads, rivers and worship places is adhered by the project. The project has left 143 meter distance to the nearest house from the boundary of mining area, the KSPCB condition is 50 meter.

29	100 m buffer distance should be maintained from forest boundaries.	Complied
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Compliance:

There is no forest in the 100 meter vicinity to the project site.

30	Consent from Kerala Pollution Control Board under Water and Air Act(s) should have been obtained before initiating activity.	Complied
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Compliance:

The Project proponent obtained “*Consent to Operate*” (Renewal) from Kerala State Pollution Control Board. The copy of consent is provided in **Annexure 1**.

31	All other statutory clearances should have been obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.	Complied
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Compliance:

The certificates obtained from concerned statutory authorities are enclosed in **Annexure No.1, 2, 3, 4 & 5**

TABLE NO. 3 – DETAILS OF APPROVALS OBTAINED

Name of the Statutory approval	Name of the Statutory authority
Environmental Clearance order	State Environmental Impact Assessment Authority, Kerala
“ <i>Consent to Operate</i> ” (Renewal)	Kerala State Pollution Control Board
Explosive License	Ministry of Commerce & Industry – Petroleum & Explosives Safety Organization (PESO)
License for quarry operations	<i>PAnchayath</i>
Lease deed	<i>Mining and Geology Dept.</i>

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 as assessed, based on which only the EC 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.	Noted
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Compliance:

At present there is no change in the scope of the project. The project is running as per plan submitted in Environmental Impact Assessment Authority, Kerala. The project proponent will seek for a new Environmental clearance In the case of any change(s) in the scope of the project.

33	The Authority reserves the right to add additional safe guard measures subsequently, if found necessary, and to take action including revoking of the environment 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.	Noted
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Compliance:

To enhance environmental sustainability and conserve natural resources, the project is willing to add all possible additional safe guard measures subsequently if the authority found necessary.

34	The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of 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.	Noted
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Compliance:

The stipulated orders and directions under different act and notification including EIA notification will be scrupulously followed. A brief list of various Acts and notifications which are followed by the proponent is given below

- Kerala Minor Mineral Concession Rules, 2015.
- Mines Act, 1952
- Explosive Rules, 2008
- Kerala Panchayat Raj Act, 1994
- Water Pollution (Prevention & Control) Act, 1974
- Air Pollution (Prevention & Control) Act, 1981

- The Kerala Promotion of Tree Growth in Non-Forest Areas (Amendment) Act, 2007.
- Environment Protection Act, 1986
- EIA Notification, 2006 / 2009

35	The project proponent should advertise in at least two local news papers widely circulated in the region, one which (both 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 Department of Environment and Climate Change, Govt. of Kerala and may also be seen on the website of the Authority at www.seiaakerala.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 this authority as confirmation.	Complied
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Compliance:

As per the condition stipulated in environmental clearance order, an advertisement in two local newspapers regarding Environmental Clearance accorded to the quarry project was given within the stipulated period and the copy of the same was submitted at SEIAA Kerala. The copy of the advertisement given in two local newspapers is provided at **Annexure No.10**. The details of the news papers are given in the table.

. Table No.4- Details of advertisement in news papers

Sl. No.	News paper	Language	Date of edition
1	Kerala Kaumadhy	Malayalam	31-08-2016
2	The new Indian express	English	31-08-2016

36	A copy of the clearance letter shall be sent by the proponent to concerned Grama/District Panchayath / 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	Complied
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	website of the company by the proponent.	
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Compliance:

A copy of the Environment Clearance letter was submitted to the Panchayat Office. The project proponent did not receive any suggestions / representation from anywhere while the processing the proposal therefore did not give the copy of clearance letter to anyone.

37	The proponent shall submit six monthly reports on the status of compliance of the stipulated EC 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 EC conditions including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the respective Regional Office of MoEF, Govt. of India and also to the State Environment Impact Assessment Authority (SEIAA) office.	Complied
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Compliance:

The project proponent is bound to follow the conditions stipulated in the Environmental Clearance order. The compliance report of first half is being submitted to the Directorate of Environment and Climate Change, Govt. of Kerala and also to the Regional Office of MoEF&CC, Govt. of India. The monitored data of Air, Water and Noise is attached as **Annexure No. 7, 8 & 9**. The project proponent has uploaded compliance report along with monitored data and Environmental Clearance is in the website the link is <https://esskayin.com/certificate/index/9>

38	The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft 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.	Complied
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Compliance:

The details of the Environmental Clearance are displayed on metallic board in the project site. The metallic board as specified in the conditions of Environmental Clearance order of 3 ft x 3 ft with green background and yellow letters of Times New Roman font.

39	The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed.	Complied
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Compliance:

An assurance in the form of affidavit was already submitted to SEIAA Kerala.

40	No change in mining technology and scope of working should be made without prior approval of the SEIAA, No further expansion or modification in the mine shall be carried out without prior approval of the SEIAA, as applicable.	Noted
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Compliance:

The project proponent is not intending to expand the area of mine, technology and scope of working. The project proponent will appear SEIAA for Environment Clearance if the project wants to expand its scope.

41	The project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any originating from the mine lease shall be taken.	Noted
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Compliance:

The Rain water harvesting pond in the site is working as clarifiers to prevent the quarry waste within the site. The project proponent will install additional clarifiers in the

project site to prevent sediments and wastes from quarry site to enter in to the main stream. The project proponent will constitute a Cell to monitor such commitments to the community.

42	Monitoring of Ambient air Quality to be carried out based on the notification 2009, as amended from time to time by the Central Pollution Control Board. Water sprinkling should be increased at places loading and un loading points & transfer point to reduce fugitive emissions.	Complied
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Compliance:

The project proponent has monitored the ambient air quality as per National Ambient Air Quality Standard (NAAQS), during the time of appraisal of the project. The project proponent is intending to increase splashing of water and installation of sprinklers at loading, unloading and transfer points.

43	The top soil, if any, shall be temporarily stored at earmarked site(s) only for the topsoil shall be used for land reclamation and plantation. The Over Burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dumps shall be maintained to 45°. The OB dumps 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 stabilization of the bump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.	Being complied
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Compliance:

To prevent the soil erosion, the top soil and overburden are stacked in designated place within the project site. Only topsoil will be used for plantation. Overburden will be used for landfill and to construct haulage roads in the mining area. The excess will be stored in a designated place as per the direction of State

Environment Impact Assessment Authority (SEIAA). The Environment Monitoring Cell will monitor the execution of eco restoration.

44	Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of 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 de silted particularly after monsoon and maintained properly.	Complied
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Compliance:

The project proponent has constructed effective garland drains to catch all the storm water during the time of monsoon season. These channels directed the water to the rain water collection pond. All sediments and silts are settling at the bottom of the pond and only cleared water is letting out. The water from the pond can be used for splashing of water on roads to arrest the dust.

45	Effective safeguard measures such as regular water sprinkling shall be carries out in critical areas prone to air pollution and having high levels of PM ₁₀ and PM _{2.5} , such as haul road, loading and un loading points and transfer points – it shall be ensured that the Ambient Air Quality Parameters confirm to the norm prescribed by the Central Pollution Control Board in this regard.	Complied
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Compliance:

The project proponent is regularly checking the air quality in the site and spraying water in critical areas prone to air pollution with the help of vehicle. The project proponent has placed mobile sprinklers in critical area to reduce the dust emission. The ambient air quality is monitored with the help of an approved laboratory at regular interval.

46	Fugitive dust emission from all the sources should be controlled regularly. Water spraying arrangements on haul roads, loading and unloading and at transfer point should be provided and properly maintained.	Complied
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Compliance:

The project proponent has installed mobile sprinklers in critical area to reduce the dust emission. The water spraying has been carried out regularly to arrest the dust emission. The sprinklers and vehicle for water spraying is being properly maintained.

47	Measures should be taken for control of noise levels below 85 dBA in the work environment.	Noted
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Compliance:

The main sound generating activities in the mining industries are the playing of jack hammer, breaker, vehicles and blasting operations. The level noise from all these activities will not go beyond 85dBA. The project proponent will take appropriate action to reduce the sound by employing possible measures. These are mentioned under the condition number 11.

48	A separate Environmental Management Cell with suitable qualified personal should be set up under the control of a senior executive, who will report directly to the Head of the Organization.	Complied
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Compliance:

To monitor all conditions stipulated in the Environment Clearance and environment Management Plan, the project has constituted an Environment Monitoring Cell with Mr. Benny Pathrose as the head of the Cell. This cell concurrently monitors and evaluates the safeguard measures implemented in the project site.

49	The funds earmarked for environmental protection and CSR activities should be kept in separate account and should not be diverted for	Being complied
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	other purpose. Year wise expenditure should be reported to the State Environment Impact assessment authority (SEIAA) office.	
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Compliance:

The project proponent could execute many activities under Corporate Social Responsibility (CSR) for community development. To implement these activities in a good manner, the project proponent maintain an account for keeping the funds earmarked for environmental protection and CSR.

50	The Regional Office of MoEF & CC located at Bangalore shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the regional Office by furnishing the requisite data/information/monitoring reports.	Noted
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Compliance:

The project proponent will extent all possible cooperation to the officers form regional office of MoEF & CC and can produce all data/information/reports when they are asking for.

51	Any appeal against this 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.	Noted
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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 withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted
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53	The SEIAA may revoke or suspend the order, for non implementation of any of the specific or this implementation of any of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	Noted
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Compliance:

The project proponent is willing to implement the conditions stipulated in the Environment Clearance order. The project proponent can execute all possible measures in the project site for the conservation of environment.

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 the same project.	Noted
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Compliance:

The project proponent is giving priority to the conditions stipulated in the Environment clearance Order for its execution.

55	This order is valid for a period of 5 years or the expiry date of mine lease period issued by the Govt. of Kerala, whichever is earlier.	Noted
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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.	Noted
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57	The mining operation shall be restricted to above ground water table and is should not intersect ground water table.	Noted
-----------	--	--------------

Compliance:

The project proponent will restrict its mining operations above the ground water table.

58	All vehicle used for transportation and within the mine shall have "PUC" certificate from authorized pollution taking center. Washing of all vehicles shall be inside the lease area.	Complied
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Compliance:

As part of reduce air pollution, the project proponent is monitoring the pollution level of all vehicles playing in the project site. This monitoring conducts in authorized pollution checking center.

59	Project proponent should obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and ground water for the project.	Noted
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Compliance:

At present, the need of prior approval is not necessary to draw ground water and surface water for the project.

60	Regular monitoring of flow rates and water quality upstream and down streams of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly report to SEIAA.	Noted
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Compliance:

There is no stream or springs flowing in and around to the mine lease area. The project proponent will install de siltation trap and other mechanism to prevent sediments and wastes from the mining area entering in to the public drainage system.

61	Occupational health surveillance program of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Noted
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Compliance:

The project proponent has initiated steps an occupational health surveillance program in association with Primary Health Center (PHC) of Kerala government for the labours working in mining area.

PLATES

Plate No.1



RWH Pond

Plate No.2



Fencing

Plate No.3



Sign boards

Plate No.4



Warning Alarm

Plate No.5



Mining area

Plate No.6



Crusher

Plate No.8



Magazine

ANNEXURE

Annexure No.1

**KERALA STATE POLLUTION CONTROL BOARD**

FILE NO. :PCB/PLKD/ICO/R16PAL3750504/2019

Date of issue :26/09/2019

INTEGRATED CONSENT TO OPERATE - RENEWAL**Consent No : PCB/PLKD/ICO/R1/11272680/2019****Ref : 1. Application No: 11272680****2. Consent No: PCB/PLKD/IC/CO/F/4417/2016 dated 18.10.2016 valid upto 30.09.2019**

The ' Integrated Consent to Operate' issued as per reference above to M/s TRIPHY GRANITES ,CHALIYATTIRI P.O PALLIPPADAM PALAKKAD DISTRICT - 679535 is hereby renewed up to 30/09/2024 and issued to M/s TRIPHY GRANITES ,CHALIYATTIRI P.O PALLIPPADAM PALAKKAD DISTRICT - 679535

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	Annual Fee	Rs.22000/-
2	Category	Red
3	Capital Investment	Rs.94.7 Lakhs
4	Activity	Quarrying in Survey No 274,275/1A3 in Thirumittacode II village with area of extent 4.7811 hectares
5	Validity	16.08.2021
6	Renewal Date	On or before 16.06.2021
7	Fee Remitted	Rs.123417/- (fee remitted is adequate for consent up to 30-9-2024)

II. Stack Details

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

III. CONDITIONS

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

DATE :26/09/2019

KRISHNAN M N Digitally signed by KRISHNAN M N
Date: 2019.09.26 15:59:50 +05'30'

SIGNATURE & SEAL OF ISSUING AUTHORITY
ENVIRONMENTAL ENGINEER



To

BENNY PATHROSE MADAPPILLIL HOUSE MALAYIDOMTHURUTHU P.O ERNAKULAM -
683561

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

Copy of Consent form PCB

Annexure No.2

Validity expires on 16-08-2021



सत्यमेव जयते

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

*Present: Prof. (Dr.) K.P. Joy, Chairman, Dr. J. Subhashini, Member and Sri. V. S. Senthil, I.A.S.,
Member Secretary.*

Sub: Environmental Clearance -Application for environmental clearance for the quarry project in Sy. Nos. 274 and 275/1A3 at Thirumittacode Village II, Thirumittacode Panchayath, Pattambi Taluk, Palakkad District, Kerala by M/s Tripthy Granites- E.C-Granted-Orders issued.

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY

No. 826/SEIAA/EC1/2609/2015

dated, Thiruvananthapuram 17-08-2016

- Read:* - 1. Application dated 27-06-2015 from Sri. Benny Pathrose, Partner, M/s Tripthy Granites, Pallippadam, Malatyamkunnathu, Chaliyattiri P.O., Palakkad District-679535.
2. Minutes of the 48th meeting of SEAC held on 6-7/11/2015.
3. Minutes of the 56th meeting of SEAC held on 6-7/06/2016.
4. Minutes of the 55th meeting of SEIAA held on 16/07/2016.

ENVIRONMENTAL CLEARANCE NO. 116/2016

Sri. Benny Pathrose, Partner, M/s Tripthy Granites, Pallippadam, Malatyamkunnathu, Chaliyattiri P.O., Palakkad District-679535, vide his application received on 07-07-2015 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. Nos. 274, 275/1A3 at Thirumittacode Village II, Thirumittacode Panchayath, Pattambi Taluk, Palakkad District, Kerala for an area of 4.7811 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50hectares) and as per O.M. No. L-11011/47/2011-IA.II (M) dated 18th May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dated 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares. Other details of the project are as follows:



Page 1 of 10

Copy of Environmental Clearance

Annexure No. 3

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

अनुज्ञप्ति सं. (Licence No.): E/SC/KL/22/1745(E81598)
वार्षिक फीस ररूप (Annual Fee Rs): 2400/-

1. Licence is hereby granted to
Sh. Benny Pathrose, Partner (अधिभोगी / Occupier : Sh. Benny Pathrose), M/s. Triphy Granites, Pallipadam, Malayankumbath, Chazhiyaduri Pk Peringode Via, Town/Village - Chaliyattiri, District-PALAKKAD, State-Kerala, Pincode - 679535

को अनुज्ञप्ति अनुदत्त की जाती है।
2. अनुज्ञप्तिधारि की प्रास्थिति | Status of licensee : Partnership Firm

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

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

क्र. सं.	नाम और विवरण	वर्ग और भाग	उप-भाग	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	400 Kg.
2.	Safety Fuse	6.1	0	1000 Mtrs
3.	Ordinary Detonator	6.3	0	5000 Nos.
4.	Electric Detonators	6.3	0	5000 Nos.

(ख) किसी एक कैलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा [अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञप्ति के लिए] : 10 times as above.
(b) Quantity of explosives to be purchased in a calendar month [applicable for licence under article 3(b) and (c)]:

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञप्त परिसर की पुष्टि होती है।
The licensed premises shall conform to the following drawing(s). रेखाचित्र क्र. (Drawing No.) E/SC/KL/22/1745(E81598)
दिनांक (Dated) 25/07/2017

6. अनुज्ञप्त परिसर निम्नलिखित पते पर स्थित है। The licensed premises are situated at following address:
Survey No. 274, ग्राम (Town/Village) : Thirumittacode-2 (v), Pattambi Taluk
जिला (District) PALAKKAD राज्य (State) Kerala पिनकोड (Pincode) 679535
दूरभाष (Phone) ई.मेल (E-Mail) पुलिस थाना (Police Station) : Chaliserry फेक्स (Fax)

7. अनुज्ञप्त परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं।
The licensed premises consist of following facilities. Two portable magazines of B(No.11) & B(No.12) type fabricated by M/s. Industrial Explosives (P) Ltd., Nagpur.

8. अनुज्ञप्त समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबंधों के अधीन रहते हुए अनुदत्त की जाती है।
The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures.
1. उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सन्निर्माण संबंधी और अन्य विवरण दर्शित करते हुए)।
Drawings (showing site, constructional and other details) as stated in serial No. 5 above.
2. अनुज्ञप्त प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञप्ति की शर्तों और अतिरिक्त शर्तों।
Conditions and Additional Conditions of this licence signed by the licensing authority.
3. दूरी प्ररूप DE-2 | Distance Form DE-2.

9. यह अनुज्ञप्ति तारीख 31 मार्च 2022 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2022.

यह अनुज्ञप्ति, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निरिष्ट सेट-VII के अधीन तथा उपवर्णित इस अनुज्ञप्ति की शर्तों का अधिक्रमण करने या यदि अनुज्ञप्त परिसर योजना या उसके संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रलिसंहत की जा सकती है, जहां वह लागू हो।
This licence is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under Set VIII, wherever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and Annexure attached hereto.

तारीख | The Date - 25/07/2017 संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller of Explosives South Circle, Chennai

नवीनीकरण के पट्टांकन के लिए स्थान
Space for Endorsement of Renewal

नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature of licensing authority and stamp

**कानूनी चेतावनी : विस्फोटकों को गलत ढंग से चलाने या उनका दुरुपयोग विधि के अधीन गंभीर दंडिक अपराध होगा।
Statutory Warning : Mishandling and misuse of explosives shall constitute serious criminal offence under the law.**

उप मुख्य विस्फोटक नियंत्रक
Deputy Chief Controller of Explosives
एरनाकुलम Ernakulam

Copy of Explosive

Annexure No. 4



നമ്പർ: 6/2020-2021/A-7/503/20 തീയതി: 24/02/2020

തിരുമിറ്റക്കോട് ഗ്രാമപഞ്ചായത്ത്
ചാത്തന്നൂർ പി.ഒ., പാലക്കാട് (ജില്ല)
 പിൻ: 679535, ഫോൺ: 4662258233, ഇ-മെയിൽ: ddpthirumittakodepkd@gmail.com

വ്യവസായം, വാണിജ്യം, സംരക്ഷകത്വം, മറ്റ് സേവനങ്ങൾക്കുള്ള ലൈസൻസ്
(കെ.പി.ആർ ആക്ട് സെക്ഷൻ 232, FACTEOS ലൈസൻസ് ചട്ടങ്ങൾ 1996)

ലൈസൻസിയുടെ പേര്	ബെന്നി പത്രോസ്		
ലൈസൻസിയുടെ മേൽവിലാസം	പാർടണർ , തൃപതി ഗ്രാനൈറ്റ്സ്, ചാഴിയാട്ടിരി(പി.ഒ)		
സ്ഥാപനത്തിന്റെ പേരും, സ്ഥലനാമവും	M/S തൃപതി ഗ്രാനൈറ്റ്സ്, ചാഴിയാട്ടിരി(പി.ഒ)		
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	കരിങ്കൽ ഖനനം , സർവ്വെ നമ്പർ 274 , 275/1A3, തിരുമിറ്റക്കോട് 2 വില്ലേജ്		
വാർഡ് നമ്പർ/കെട്ടിട നമ്പർ	XI..		
ലൈസൻസ് കാലാവധി	01/04/2020 മുതൽ	31/03/2025 വരെ	
ലൈസൻസ് ഫീസ്	തുക	രസീത് നമ്പർ	തീയതി
	75000 /- രൂപ	119010107273	24/02/2020
	മോട്ടോർ ഫീസ്		
തൊഴിൽ നികുതി	2500 /- രൂപ	119010107274	24/02/2020

ലൈസൻസ് അനുവദിക്കുന്നതിന് ഹാജരാക്കിയ നിരാക്ഷേപ പത്രങ്ങളുടെ വിശദാംശങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാര സ്ഥാപനം)

- Order no of Hon: High court of kerla WP(C) no- 12122/2017(M) dated- 06/04/2017, Proceedings of the Director of Mining & Geology No- 95/2017-18/5160/M3/2016/GMG dated -20/05/2017 - valid up to **16/08/2021**
- Quarrying Lease dated 29/05/2017- Valid Up to 28/05/2027, Kerala stae Pollution Control Board Consent - PCB/PLKD/ICO/R1/11272680/2019 dated 26/09/2019 valid up to **16/08/2021**
- Explosive licence no E/SC/KL/22/1745(E81598) dated -27/09/2017- valid up to **31/03/2022**, Proceedings of the State Environment Impact Assessment Authority kerla NO- 826/SEIAA/EC1/2609/2015 dated 17/08/2016 life mine proposed About 8 yers






തിരുമിറ്റക്കോട് ഗ്രാമ പഞ്ചായത്ത്
 തിരുമിറ്റക്കോട് ഗ്രാമപഞ്ചായത്ത് - 679 535

Copy of license from Gram Panchayat

Annexure No.5


Date Recd. 18/6/17 Dupl Made II




भारतीय गैर न्यायिक
भारत INDIA
₹ 500 FIVE HUNDRED
पाँच सौ रुपये Rs. 500
INDIA NON JUDICIAL

I have satisfied as to the original document produced before me has been levied & signed accordingly Rs. 246412 2nd day of June 2017 Sub Registrar Vinko Muhammed

കേരളം കേരल KERALA FORM H (See Rule 43) C 638842
QUARRYING LEASE



Benny Pathrose




This deed of lease made on this the.....29th..... day of May.....2017 between the Governor of Kerala (hereinafter referred to as the "State Government" which expression shall, where the context so admits be deemed to include his successors and assigns) of the one part and **Shri. Benny Pathrose, Partner, M/s. Triptyh Granites, Pallipadam, Chazhiyattiri. P. O, Palakkad, aged 46 years, son of Shri. M. M. Pathrose resident of Madappillil House, Malayidomthuruthu Post, Kunnathunadu Taluk, Ernakulam District** (hereinafter called the "lessee/lessees" which expression shall where the context so admits, include his/their heirs, executors, administrators, representatives and permitted assigns) of the other part.

Witnesseth that in consideration of the rents and royalties and lessee's/Lessee's covenants, hereinafter reserved and contained the State Government hereby give on lease to the lessee/lessees the land measuring **4.7811 hectares** described in the schedule hereunder and delineated on the plan hereto annexed and therein coloured red (hereinafter called the "said lands") to hold the same for a period of **Ten (10) years** commencing from the 29.5.2017.....and ending on the 28.5.2027 for the purposes of extracting minor mineral/minerals and subject to the terms and conditions contained in the

Lessor [Signature] 29/5/17
K. R. SAJEEVAN
Geologist
Sublet Office of the Department of Mining and Geology, Palakkad
Pin-678 014.

NO 306
VALUE Rs 500/-
SOLD TO
DATED ON

For Lessee
[Signature]
B. SARASWATHY
Collectorate Vendor
PALAKKAD



DISTRICT TREASURY
PALAKKAD
12 MAY 2017

No 1842/17

Presented in the Office of the Subregistrar, Thrithala at
On this the 2nd day of June 2017
Stamp Impression(s) of the Registrant(s), Claimant(s) and
presenting(s) under section 32A and paid a fee of Rupees

2.50 PM

63772

Benny Pathrose



Residing at Medappali, house No MM Pathrose

Business Malayidam Thiruthi
and day of June 2017
identified by

① Kuthiravakulicheril Kildhose S/o
K.K. Kuniakose Business Oonukul. P.O

② Basil. Vellamkandathil Basil S/o Vasey
Business Nellimattam. P.O

executed and by

I have satisfied myself as to the execution of
the Party Mr. Subeetan Ciolagat District office
of the department of mining and geology
Palakkad he is. encumbrance in Personal appearance
as per sub sec (1) of Indian Regn Act 1908 he



2nd day of June 2017

Registered as No. 1842 of 2017 in Book F
Volume 1658 Page from 93 to 95
8 sheet

VISWAMOHANAN
Sub Registrar


2nd day of June 2017


VISWAMOHANAN
Sub Registrar

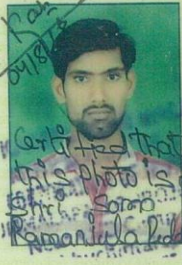
Lease deed

Annexure No.6

Cert No. FUE /1485


सत्यमेव जयते

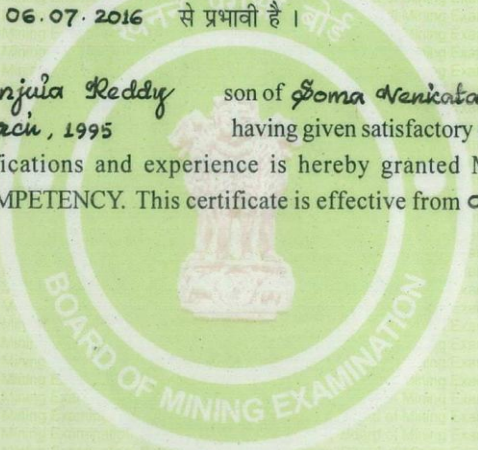


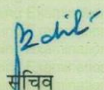



भारत सरकार/Government of India
खान अधिनियम, 1952/Mines Act, 1952
खनन परीक्षा बोर्ड/Board of Mining Examinations
फोरमैन सक्षमता प्रमाण-पत्र
FOREMAN'S CERTIFICATE OF COMPETENCY
(धात्विकीय खान विनियम, 1961 के अन्तर्गत)
(Under the Metalliferous Mines Regulations, 1961)

श्री सोमा रमनजूला रेड्डी सुपुत्र सोमा वेंकट रेड्डी
जिनकी जन्म तिथि 08.03.1995 है, को विहित अर्हताएं एवं अनुभव प्राप्त करने का सन्तोषजनक प्रमाण प्रस्तुत करने पर एतद्वारा फोरमैन सक्षमता प्रमाण-पत्र प्रदान किया जाता है। यह प्रमाण-पत्र दिनांक 06.07.2016 से प्रभावी है।

Shri Soma Ramanjula Reddy son of Soma Venkata Reddy
born on 08th March, 1995 having given satisfactory evidence of possessing the prescribed qualifications and experience is hereby granted MINE FOREMAN'S CERTIFICATE OF COMPETENCY. This certificate is effective from 06.07.2016




सचिव
खनन परीक्षा बोर्ड
Secretary
Board of Mining
Examinations


अध्यक्ष
खनन परीक्षा बोर्ड
Chairman
Board of Mining
Examinations

Signed and Sealed
Date 04.01.17

Certificate of Second class manager

238
सी.आई.एम. १२३४
C.I.M. 1234

खान अधिनियम, १९५२
THE MINES ACT, 1952

BLASTER'S CERTIFICATE OF COMPETENCY
(घातु उत्पादक खान विनियमावली, १९६१ के अधीन)
Under Metalliferous Mines Regulations, 1961
(Restricted to mines having opencast workings only)


श्री.....सुपुत्र.....गांव.....
थाना.....जिला.....राज्य.....
को जिनकी जन्मतिथि.....है अपनी आयु, आरोग्यता, अच्छे आचरण, साक्षरता और अनुभव के संबंध में संतोषजनक प्रमाण दे देने और.....में तारीख.....१९.....को हुई मौखिक परीक्षा पास कर लेने पर घातु उत्पादक खान विनियमावली, १९६१ के अधीन विस्फोटकर्ता प्रमाण-पत्र दिया जाता है।
N. Anandan, S/O. Naragan.....(Name)
of Village.....Taranasari....., Thana.....Sandur.....
District.....Bellary....., State.....Mysore.....
born on.....Twentyfour July, One thousand Nine hundred and Fortythree.....
having given satisfactory evidence of his age, medical fitness, good conduct, literacy and experience and having passed an oral examination held at.....on.....19....., is hereby granted a BLASTER'S CERTIFICATE under the Metalliferous Mines Regulations, 1961.

सचिव
खनन परीक्षा बोर्ड
Secretary,
Board of Mining Examinations.

अध्यक्ष
खनन परीक्षा बोर्ड
Chairman,
Board of Mining Examinations.

तारीख.....१९.....
Dated.....12-2-1974.....

डा. विदेशक, खाद सुरक्षा, बल्लारी
Dr. Director of Mines Safety, Bellary
21-01-2004



बाएँ हाथ के अंगूठे का निशान
Left hand thumb impression

प्रमाणित किया जाता है कि उसकी स्वास्थ्य परीक्षा कर ली गई है और वह बहरेपन, संदोष दृष्टि या अन्य किसी ऐसी मानसिक अथवा शारीरिक अशक्तता से मुक्त पाया गया है जो उसके कर्तव्यों को प्रभावी रूप से करने में बाधक हो।
Certified that he was examined and found free from deafness, defective vision or any other infirmity, mental or physical likely to interfere with the efficient discharge of his duties.

1 On 7-2-83 को
Dy. Director of Mines Safety (SC), Bellary.

2 On 16-3-88 को
Dy. Director of Mines Safety (SC), Bellary.

3 On 13-8-93 को
Dy. Director of Mines Safety, Bellary.

4 On 5-9-98 को
Dy. Director of Mines Safety, Bellary.

5 On 13-8-93 को

6 On 5-9-98 को

MGIPCEE—S3—(631)—16 DGMS/Dhanbad/71—15-3-72—7,000.

विदेशक, खाद सुरक्षा, बल्लारी
Director of Mines Safety, Bellary

Certificate of Blaster

Annexure No. 7

**TEST REPORT**

Test Report No: 20201111/R027	Date: 18.011.2020	Page 1 of 1
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CUSTOMER DETAILS

Customer Name & Address	M/s Tripthy Granites Pattambi, Palakkad District
Customer Reference	Test Request dt: 11.11.2020

SAMPLE DETAILS

Product Category	Atmospheric Pollution	Sample Code	20201111/S027
Sample Name	Ambient Air	Sample Received on	12.11.2020
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	13.11.2020
Sampled by	Lab Authorized Sampler	Test Completed on	17.11.2020

DETAILS OF SAMPLING

Sampling Location	South side boundary	Date of Sampling	11.11.2020
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	66%

SAMPLING SITE DETAILS


Survey No.	274,275/1A3		
Village	Thirumittacode II	Taluk	Pattambi
District	Palakkad	State	Kerala

TEST RESULTS- CHEMICAL PARAMETERS

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ Standards
1	Particulate Matter, PM ₁₀	IS 5182 (Part 23):2006	µg/m ³	79.4	Max 100
2	Particulate Matter, PM _{2.5}	EPA 40 CFR (Part 50) Appendix - L	µg/m ³	34.3	Max 60
3	Sulphur Dioxide as SO ₂	IS 5182 (Part 2): 2001 RA 2017	µg/m ³	<2.00	Max 80
4	Oxides of Nitrogen as NO ₂	IS 5182 (Part 6): 2006 RA 2017	µg/m ³	<2.00	Max 80

Remarks:

End of Report


Shency Joy
Dy. TM Chemical
Checked by:




Laiju P. N.
Laboratory Head
Authorized Signatory

Standard^S Environmental & Analytical Laboratories

Accreditation and Approval: NABL as per ISO 17025: 2017 & "A" Grade Laboratory of KSPCB
K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43
Web: www.sealabs.in, E-mail: seaalab@gmail.com

Ambient Air

Annexure No.8

**TEST REPORT**

Test Report No: 20201111/R028	Date: 18.11.2020	Page 1 of 1
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CUSTOMER DETAILS

Customer Name & Address	M/s Triphy Granites Pattambi, Palakkad District
Customer Reference	Test Request dt: 11.11.2020

DETAILS OF MONITORING

Product Category	Atmospheric Pollution	Sample Code	20201111/S028
Sample Name	Ambient Noise	Monitoring Commenced on	11.11.2020 / 06:00
Monitoring Location	West side Boundary	Monitoring Completed on	12.11.2020 / 06:00
Test Method	IS 9989:1981 RA:2008	Monitored by	Lab Authorized Sampler

MONITORING SITE DETAILS

Survey No.	274,275/1A3		
Village	Thirumittacode II	Taluk	Pattambi
District	Palakkad	State	Kerala

MONITORING RESULTS - Leq

TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	38.2	14:00	51.2	22:00	37.0
07:00	41.0	15:00	51.6	23:00	37.6
08:00	45.3	16:00	52.8	24:00	37.2
09:00	48.9	17:00	53.2	01:00	37.9
10:00	51.2	18:00	47.7	02:00	37.6
11:00	54.4	19:00	44.1	03:00	38.3
12:00	51.6	20:00	40.2	04:00	37.2
13:00	50.8	21:00	39.7	05:00	39.0

TEST RESULTS

Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	49.7
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	37.5


Remarks:

End of Report


Shency Joy
Dy. TM Chemical

Checked by:




Lalju P. N.
Laboratory Head
Authorized Signatory

Standard^S Environmental & Analytical Laboratories

Accreditation and Approval: NABL as per ISO 17025: 2017 & "A" Grade Laboratory of KSPCB
K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43
Web: www.sealabs.in, E-mail: seaalab@gmail.com

Result of ambient Noise

Annexure No.9



TEST REPORT

Test Report No: 20201111/R029	Date: 18.11.2020	Page 1 of 2
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CUSTOMER DETAILS

Customer Name & Address	M/s Triphy Granites Pattambi, Palakkad District
Customer Reference	Test Request dt: 11.11.2020

SAMPLE DETAILS


Product Category	Water	Sample Code	20201111/S029
Sample Name	Open Well	Sample Received on	12.11.2020
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	28 °C
Sample Quantity & Packing	1L & 100ml Plastic Bottle	Test Commenced on	12.11.2020
Sampled by	Not Drawn by Laboratory	Test Completed on	17.11.2020

SAMPLING SITE DETAILS

Survey No.	274,275/1A3		
Village	Thirumittacode II	Taluk	Pattambi
District	Palakkad	State	Kerala

TEST RESULTS- CHEMICAL PARAMETERS

Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500 :2012
1	Colour	IS 3025 (Part 4):1983 RA 2017	Hazen	1.00	Max 5
2	Odour	IS 3025 (Part 5):2018	---	Agreeable	Agreeable
3	Turbidity	IS 3025 (Part 10):1984 RA 2017	NTU	0.50	Max 1
4	pH	IS 3025 (Part 11):1983 RA 2017	---	7.01	6.50 - 8.50
5	Conductivity	IS 3025 (Part 14):1984 RA 2019	µS/cm	111	---
6	Total Dissolved Solids	IS 3025 (Part 16):1984 RA 2017	mg/L	72.0	Max 500
7	Total Hardness as CaCO ₃	IS 3025 (Part 21):2009 RA 2019	mg/L	30.0	Max 200
8	Calcium as Ca	IS 3025 (Part 40):1991 RA 2019	mg/L	8.00	Max 75
9	Magnesium as Mg	IS 3025 (Part 46):1994 RA 2019	mg/L	2.44	Max 30
10	Chloride as Cl	IS 3025 (Part 32):1988 RA 2019	mg/L	18.1	Max 250
11	Total Alkalinity as CaCO ₃	IS 3025 (Part 23):1986 RA 2019	mg/L	21.9	Max 200
12	Iron as Fe	IS 3025 (Part 53):2003 RA 2019	mg/L	0.21	Max 1
13	Sulphate as SO ₄	IS 3025 (Part 24):1986 RA 2019	mg/L	3.20	Max 200


Shency Joy
Dy. TM Chemical
Checked by:


Salini T. S.
Microbiologist
Authorized Signatory




Lajju P. N.
Laboratory Head
Authorized Signatory

Standard^S Environmental & Analytical Laboratories

Accreditation and Approval: NABL as per ISO 17025: 2017 & "A" Grade Laboratory of KSPCB
K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43
Web: www.sealabs.in, E-mail: seaalab@gmail.com

**TEST REPORT**

Test Report No: 20201111/R029	Date: 18.11.2020	Page 2 of 2
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TEST RESULTS - BIOLOGICAL PARAMETERS					
Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500 : 2012
1	Total Coliform Bacteria	IS 15185 : 2016	----	Absent/100 ml	Absent/100 ml
2	E coli	IS 15185 : 2016	----	Absent/100 ml	Absent/100 ml

Remarks:

End of Report


Shency Joy
 Dy. TM Chemical

Checked by:


Salini T. S.
 Microbiologist

Authorized Signatory




Laju P. N.
 Laboratory Head

Authorized Signatory

Standard^S Environmental & Analytical Laboratories

Accreditation and Approval: NABL as per ISO 17025: 2017 & "A" Grade Laboratory of KSPCB

K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43
 Web: www.sealabs.in, E-mail: seaalab@gmail.com**Result of drinking water**

