

QUARRY PROJECT OF MR. JOVIN GEORGE

**COMPLIANCE REPORT
APRIL 2021 - SEPTEMBER 2021**



**KANNUR DISTRICT
KERALA**

Dt.16-12-2021

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. 01/KNR/2017/DEIAA

**Sub :- Environment Clearance – Quarry project at Survey No. 275/1A
in Trippangottur Village, Thalassery Taluk, Kannur District, Kerala –
Compliance Report - First half - Reg.**

Respected Sir,

The Quarry (Building stone) project was accorded Environmental Clearance for 3.7556 Ha. by order No. **01/KNR/2017/DEIAA** dated 22-05-2017 by District Environmental Impact Assessment Authority, Kannur, Kerala. The compliance report of **First half (April 2021 – September 2021)** to the specific and general conditions of the Environment Clearance order is enclosed.

Thanking you,

Yours respectfully,


Mr. Jovin George

Encl: - As Above

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

NO: 01/KNR/2017/ DEIAA

Dated: 22-05-2017

BY
**DISTRICT ENVIRONMENT IMPACT ASSESSMENT
AUTHORITY (DEIAA)
FOR
BUILDING STONE QUARRY
(MINOR MINERAL MINING) PROJECT**

AT
**SURVEY NOS. 275/1A
MADATHINAMATTATHIL, PALISSERY, TRIPANGOTTUR
VILLAGE, THALASEERY TALUK, KANNUR DISTRICT,
KERALA**

BY
**Mr. JOVIN GEORGE
KANNUR DISTRICT
KERALA**

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INTRODUCTION

Quarry project of **Mr. Jovin George** Madathinamattathil, Palissery, Thalassery P.O. is situated at Survey No. 275/1A, Trippangottur Village, Thalassery Taluk, Kannur District, Kerala.

The quarry project was accorded with the Environmental Clearance (EC) by District Environmental Impact Assessment Authority, Kannur on 22-05-2017. 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 First half to the specific conditions, health conditions and general conditions of the Environmental Clearance order for the period of **April 2021 – September 2021** is being submitted.

COMPLIANCE REPORT

(SPECIFIC CONDITIONS)

PART A

PART - A – SPECIFIC CONDITIONS

01	A mines manager shall be appointed to control ,direct, manage and supervise the quarrying operations required under the mines Act ,1952	complied
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To control, direct, manage and supervise the quarrying operations as per the Mines Act 1952 the project proponent has appointed mines Engineers. The certificate of Mines engineer is attached as **Annexure No.1** and Form D is attached as **Annexure No 2** for the reference.

02	Health and welfare for the persons employed shall be implemented	complied
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The project is keeping a First aid box in the project site. In association with Primary Health Centre of Local Self Government, the project proponent has conducted health check up for the labours. Other facility of housing, food, water and sanitation is provided by the project proponent.

03	Controlled blasting should be practiced and blasting shall be done only during day time. The mitigate measures for control of ground vibration to arrest the fly rocks and boulder should be implemented.	Complied
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The blasting is done in controlled manner by using ordinary delayed detonators to reduce ground vibration. All blasting activities are carrying out with the stipulated guidelines of explosive department and other concerned agency. No work will be there in the quarry site at Night.. The blasting time in the quarry is fixed at 9.00 am-10.30 am, 2.00 pm- 3.00 pm and 4.00 pm to 5.30 pm. The mitigate measures to arrest ground vibration and fly rock is detailed in General condition No 11. The photograph of the Time showing blasting board is attached as **Plate No. 1**.

04	Plantation shall be done which includes a green belt of adequate width around the mining lease area excluding the	Complied
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	rocky area, along roads, overburden dumps and non-mineralized area by planting suitable native species in consultation with the local DFO/Agriculture department.	
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The project proponent has started to plant various saplings in the project site to develop a green belt around the project area. Avenue tress also planted along the road side to minimise the dust emission. The project has taken the suggestion of agricultural department to plant the native species.

05	The drains should be regularly de silted and maintained properly check dam and gully checks shall be constructed wherever to required to arrest siltation.de siltation shall be done every year before the onset of monsoon	Complied
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To arrest the quarry waste entering in to the public drain and stream, the project has constructed De siltation chambers. These chambers will be de silted during summer season.

06	Fencing shall be maintained properly all around the lease area.	Complied
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The project proponent has constructed barbed metal wire fencing around the lease area.

07	The CSR need redrafting with inclusion of felt needs of the locality with special emphasize for implementing ground water recharging water recharging techniques in and at the vicinity of the proposed site.	Complied
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The CSR has been redrafted by the project proponent including the ground water recharging techniques. The same was submitted to DEIAA.

08	Appropriates sign boards should be displayed.	Complied
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The appropriate sign boards are installed in the project site. Photograph of the signboards is provided at **Plate No. 9**.

09	The blasting time must be displayed and strictly adhered to.	Complied
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To give warning to the labours and community people prior to the blasting in quarry, the project proponent installed warning alarms as per the stipulation of Explosive department in the quarry site. To aware the labours and general public about the blasting a board containing blasting time has displayed in the project site. The blasting time is fixed at 9.00 am-10.30 am, 2.00 pm- 3.00 pm and 4.00 pm to 5.30 pm on all working days in the quarry. A board containing blasting time is displayed in the project site. The photograph of the Time showing blasting board is attached as **Plate No. 1**.

10	Dust suppression mechanism must be in place.	Complied
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In order to reduce the emission of dust in the project site, the project Splashes water using the vehicle.

11	A separate small plot to be maintained in the premise to preserve rare and endemic species. If any, listed in the biodiversity assessment etc.	Complied
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The project has started to plant various saplings in the project site. The Project has demarcated a small plot to preserve the endemic species.

12	The PPV values must be less than 10 mm/sec.	Noted
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The project proponent is using controlled blasting by using electric/ordinary delayed detonators. Blasting operations are controlled by a qualified person. Therefore the project proponent can limit the PPV under 10 mm/sec

13	The green belt shall be provides around the periphery.	being complied
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The project proponent has provided Green belt around the project area. This will reduce air and noise pollution. This can reduce air and noise pollution. **Plate No. 15** shows the green belt.

14	Where the height of the bench formed during earlier workings exceeds the maximum each of the excavator engaged for work, such bench height shall be reduced from top to bottom.	Being Complied
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The extraction of minerals is being progress from top to bottom. The maximum height of all benches will be 5 meters. All mining activities are progressing under the supervision of qualified personals.

15	Loose or hanging rock or mineral boulder on the side wall shall be dressed down before engaging persons for work at the bottom of the bench.	Complied
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The labours works on the bottom bench only after clearing loose minerals form the side wall. The vehicles like JCB, breakers are used to remove the loose or hanging mineral boulders in the project site.

16	Permanent boundary pillars should be fixed by the proponent before commencing quarrying	complied
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To demarcate the mining area, permanent Boundary pillars were fixed at each bent of the lease area. The photograph of the boundary pillars is provided at **Plate No. 2.**

17	No quarry blasting to be undertaken and sustained till warning time limit expires and /or when continues 48 hours cumulative rainfall exceeds 8 cm and blasting shall be resumed until 24hrs. of rain free situation arises in the quarry locality based on the evaluation by the revenue officials.	Noted
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The condition will be complied by the project proponent when such situation arises. No quarry blasting to be undertaken and sustained till warning time limit expires and /or when continues 48 hours cumulative rainfall exceeds 8 cm and blasting shall be resumed until 24hrs

18	All waste dumps and topsoil dumps shall be properly stabilized by using coir mats or bio regeneration .proper drainage system shall be provides so the water is properly diverted away from the dump slopes with no disturbance to the stability of the slopes.	Being Complied
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The waste dumps and topsoil dumps will be stabilised by using coir mats or bio regeneration. The drainages are constructed in the project site. This will help to manage the storm water during monsoon season.

19	All dumps slopes shall be sufficiently stabilized by using appropriate species mix of grass .creepers, shrubs & trees. This shall be done in consultation with the forest department and local research institution and experts in stabilization of mine dumps.	Noted
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The project will plant appropriate grass on the dump to prevent sliding and soil erosion once it is attain its maximum capacity. The overburden and topsoil stacking is progressing in the project site. it is being stacked in the project site.

20	Garland drains of at least 2m width shall be provided all along 7.5 m buffer zone to divert the water from entering the quarrying slopes. These drains shall be cleaned every year before the monsoon season.	Complied
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The project proponent has constructed garland drain to catch the rain water along 7.5 m buffer zone. This can divert the storm water entering the quarrying slopes.

21	The water from the garlands drainage shall directed to the silt settling ponds. The clarified overflow from silt settling ponds shall be directed to a Rain Water Harvesting (RWH) pond before releasing the clarified water to the natural watercourse.	Complied
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The water from the garlands drainage is directing to the silt settling ponds. The construction of RWH pond is almost constructed. The clarified overflow from silt settling ponds will be directed to a Rain Water Harvesting (RWH) pond before releasing the clarified water to the natural watercourse.

22	A retaining wall of stone rubbles with wire mesh, of sufficient width and strength (not less than 2m) shall be constructed at the bottom of the slope of the quarry .lease area to arrest any likely roll of boulders during heavy rainfall.	Complied
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At the bottom of the slope the project proponent has constructed a retaining wall with stone rubbles. This can prevent sliding and slumping. This has done at appropriate place in the mining area.

COMPLIANCE REPORT

(GENERAL CONDITIONS)

HEALTH

01	First Aid kit provide in the work site. It shall be periodically maintained property .some labourers shall be trained on First Aid.	Complied
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Project proponent has kept first aid box in the project site in order to provide first aid during injuries happen to the labours in the project. The project proponent has given training for the selected labours in the project site to use first aid box. The first aid kit is periodically maintained. Photograph of first aid is attached as **plate no. 16**

02	Whole some drinking water should be provided.	Complied
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Pure drinking water is available at all time for everyone in the project site.

03	Premises should be maintained as wet to suppress the dust.	complied
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The project proponent splashing water on haulage roads and loading and unloading point to reduce the emission of dust

04	Sanitary type of latrines and urinals should be provided.	Complied
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The project proponent gives importance to the sanitary needs of workers in the project site. So the project proponent has given sanitary type of latrine and urinals to every labour in the project site. The photograph showing sanitary type of latrines and urinals are attached as **plate No. 3**

05	Resting place should be provided for workers.	Complied
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The project proponent has provided adequate rest rooms in the project area to get proper rest to the labours. **Plate No. 4** shows the resting place of workers

06	'No Smoking' board should be exhibited according to COTPA Act.	Complied
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The project proponent has displayed No smoking area in the project site. The photograph of the no smoking board is provided at **Plate No. 5**.

07	Work should not be done in night.	Complied
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The quarrying activities are limited to day time only as per KSPCB guidelines in order to reduce the inconvenience of community. No work activities done during night time. The working time of quarry is at the 7 am to 6 pm.

08	Details of nearest hospitals, shortest route to hospitals and contact no etc. Should be available.	Complied
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Details of nearest hospital, Fire station, Police station, etc are available in the project site. **Plate No. 6** Shows the board fixed with Emergency contact numbers

09	Approach roads should be maintained properly.	Being complied
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To arrest the dust emission and easy transportation the approach road has been properly maintaining by the project proponent in the project site.

COMPLIANCE REPORT (GENERAL CONDITIONS) PART B

PART – B – GENERAL CONDITION

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:

In order to collect rainwater during the time of monsoon season all runoff from the quarry site is collected at the mined out pit. The project proponent has developed RWH ponds in the project site. The water from pond is mainly used for irrigation purposes, watering of plants, wetting of roads and for dust suppression system (mainly sprinklers system). Photograph of RWH pond is attached as **Plate No. 17**

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:

To monitor and evaluate the works done under the conditions stipulated in the EC order, the project proponent formed an Environmental Monitoring Cell (EMC) with Mr. Jovin George as head of the monitoring cell. The EMC meeting convenes regularly for a sustainable environment.

Table 1 - Environmental Monitoring Cell (EMC)

Sl. No.	Post	Name
1	Head of monitoring cell	Mr. Jovin George
2	Member	C G George
3	Member	Kadappa Khadar Vali

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:

The project proponent planted various tree saplings and native species in the project site as avenue trees and at parking area. To reduce air and noise pollution, the project proponent has planted various avenue trees along either side of the road. There is natural vegetation including trees, shrubs and climbers to reduce pollution. The photographs of avenue trees planted in the road side are given in **Plate No.7**. the purchase bill of plants is attached as Annexure No. 12

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 project proponent has installed solar street lights to maximum possible solar energy generation and utilization. The photograph of solar panel is given in **Plate No.14**.

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

To prevent dust emission, sprinklers are installed in the project site. The sprinklers installed in and around the crusher unit. In order to reduce dust emissions from the road while transportation of materials, the project is spraying water on roads during summer season at regular intervals.

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

The eco restoration and the mine closure plan will be done at the own cost of the project proponent. The project proponent started to plant various saplings in and around the project site.

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.	Will be complied
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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. The main activities were under the sectors of education, housing, health etc.

Table No.2 – Detail of performed activities under CSR/CER

Date	Activities	Amount spent in Rs.
18/8/2021	K Suresh babu snehaveed nirmmanam mananthery	30000
16/7/2021	Raveendran Kottakkattil poyiloor	8505
15/4/2021	Usha vazhamala(house aid)	10000
04-05-2021	Sunil Driver 4942 medical	25000
16/6/2021	Hemanth kumar chikithsa sahayam	2000
19/6/2021	Mobile phone sponsor for student	8800
07-06-2021	Aashmiya Aneesh(mobile)	7000

16/9/2021	Sudhi cheruvanchery medical	15000
16/9/2021	Abhilaksh , Pilakandy, Narikode mala(house aid)	40000
16/9/2021	Kunhan, Ayodan, Narikode mala(house aid)	20000
Total		166305

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:

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. All the boundary indicators (boards, stores, markings etc) will be protected at all times and shall be conspicuous. Photograph of fencing is attached as **plate No. 18**

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:

As per the stipulation of Explosive department, the project proponent has installed warning alarms in the quarry site. This siren is blown before blasting and after blasting. The blasting timings are displayed in the prominent area by way of caution board. Photograph of warning alarm is attached as **plate No. 19**

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

To reduce noise and vibration, the following measures are adopting in the project site.

- 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., earmuffs, ear plugs etc. are provided to workers working in high noise areas.
- The mining activity held in day time only.

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.
- ❖ The project proponent has appointed qualified persons to monitor the mining operations

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

Quarrying activities are limited to day time only as per KSPCB guidelines. The quarry working time is 7.00 am to 6.00 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:

The blasting is done in controlled manner by using ordinary delayed detonators. All blasting activities are carrying out with the specified regulations of explosive department. All blasting are under careful supervision of qualified persons. The blasting time is fixed at 9.00 am-10.30 am, 2.00 pm- 3.00 pm and 4.00 pm to 5.30 pm. The photograph of the Time showing blasting board is attached as **Plate No. 1**.

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

The project proponent has appointed mines manager in the site to supervise/control exploitation of minor minerals including blasting at the project site. The certificate of licensed person is attached as **Annexure No. 1** and Form D is attached as **Annexure No. 2**

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

To contain dust emissions and for the trouble free transportation of materials, the project proponent is maintaining the access road from the entrance of project site to quarry in good manner. The project splashes water on the road to arrest the dust production during summer season. Photograph of access road is attached as **plate No. 20**

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:

The overburden and topsoil need to extract during the time of mining, these natural resources are stored at designated place within the project site. 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.	Being Complied
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Compliance:

The quarrying activity in the project site is progressing by creating benches of 5m width and 5m height. The formation of benches is under the direction and supervision of competent person. Same is attached as **Plate No. 13**.

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

The project proponent uses blasting mats. The project proponent is using ordinary delayed detonator, therefore there is no incident of fly rock is happened in the community. The project proponent is also assuring the maximum PPV is under 10 during the time of blasting.

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

The mining depth will not exceed beyond 10 meter from the general ground level.

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 the impact of sound to the labours in the unit, the project proponent has provided ear plugs. Vegetation around the mining area will help to reduce noise and air pollution. This helps the noise level kept within prescribed standards. The project proponent is trying to enhance the vegetative cover by planting more tree saplings.

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:

As part of safety the project proponent has provided adequate Personnel Protective Equipments (PPE) such as helmets, ear plugs, safety belts, gloves, etc. to the labours in working site.

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

The proponent is very conscious to prevent all quarry waste to enter in the public drainage or stream. The project has constructed storm water drains in the lower slopes of the project area for effective management of storm water. This helps to channelize the storm water to the rain water collection pond and the most of the debris will be settled down in the bottom of the pond. Photograph of De-siltation trap is attached as **plate No. 21**

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

All vehicles with loaded materials are going outside as covered trucks to contain dust emissions. Photograph of covered truck is attached as **plate No. 22**

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:

The project proponent has started to plant various saplings in the project area as a compensation of loss of trees while the project is clearing the land for mining. The project proponent is planning to plant more tree saplings in the project site.

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

A portion of spent oil is being used as lubricant in the project site. The excess used oil sold only to the approved recyclers.

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 is fenced with barbed metal wire. **Plate No 8** shows the photograph of the Magazine.

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 reduce the adverse impact on community life, the norms of Kerala State Pollution Control Board regarding the distance criteria of residences, roads, rivers and worship places is adhered by the project. The distance of the nearest house is 143 meters form the quarry.

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

The project proponent has left more than 100 meters as buffer distance from 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 has obtained consent from KSPCB under Water and Air Act(s). The copy of certificate of “*Consent to Operate*” (Renewal) from Kerala State Pollution Control Board is provided in **Annexure No.3**.

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. 3, 4, 5, 6 & 7**. The details are given in **Table No 3**

TABLE 3 – APPROVALS FROM COMPETENT AUTHORITIES

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

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:

In case of any change(s) in the scope of the project, the proponent will apply for fresh appraisal to get the Environmental Clearance.

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

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:

An advertisement in two local daily newspapers (English and Malayalam) 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.

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 website of the company by the proponent.	Complied
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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. The Acknowledgement of the clearance letter sent to the panchayth is attached as **Annexure No. 8**

37	The proponent shall submit six monthly reports on the status of compliance of the stipulated EC conditions including results of	Complied
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	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.	
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Compliance:

The compliance report is being submitted to the District Environmental Impact assessment Authority, Kannur, State Environmental Impact assessment Authority, Kerala and the Regional Office of MoEF&CC Bangalore as Email. The monitoring result is attached as **Annexure No. 9, 10 & 11.**

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 conditions 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. **Plate No. 6** is the photograph of the Metallic board. The extent of lease area boundary will depict soon. The photograph of the metallic board is provided as **Plate No. 10**

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 DEIAA

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

At present, the project proponent is not intending to expand the area of mine, technology and scope of working. The project will appear SEIAA for Environment Clearance if the project wants to expand its scope. The mining is progressing as per submitted plan.

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:

There is no such natural water course or thodu is flowing along the project site. The project proponent will ensure the natural runoff of storm water. No stream is originating from the lease area.

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 unloading points & transfer point to reduce fugitive emissions.	Noted
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Compliance:

The project proponent has monitored the ambient air quality as per National Ambient Air quality Standard (NAAQS). The project proponent is intending to increase the splashing of water and installed sprinklers at loading, unloading and transfer points. This activity can reduce the fugitive emission.

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	Noted
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	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.	
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Compliance:

The natural resources like top soil and overburden is being stacked in a 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 District Environment Impact Assessment Authority (DEIAA), Kannur. 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.	Being 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 will direct 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	Being complied
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	levels of PM ₁₀ and PM _{2.5} , such as haul road, loading and unloading 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.	
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Compliance:

The project proponent is regularly checking the pollution of all vehicles in the site and spraying water in critical areas prone to air pollution with the help of vehicle. The project proponent will fix sprinklers in critical area to reduce the dust emission such as loading and unloading points, haul roads and transfer points. The ambient air quality is monitoring with the help of an approved laboratory.

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.	Being complied
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Compliance:

The project proponent splashes water in critical area to reduce the dust emission such as loading and unloading points, haul roads and transfer points. The sprinklers and vehicle for water spraying are properly maintained.

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

The main sound generating activities 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. At present all machines and vehicle are properly maintained in the industry.

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

To monitor all conditions stipulated in the Environment Clearance and environment Management Plan, the project proponent constitutes an Environment Monitoring Cell with Mr. Jovin George as the head of the Cell.

49	The funds earmarked for environmental protection 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 Environment Impact assessment authority (SEIAA) office.	Being complied
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Compliance:

The project proponent executes many activities under Corporate Social Responsibility (CSR) for community development. To implement these activities in a good manner, the project proponent will open 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 scrupulously follows the condition stipulated in the EC order and keeping all records with a good documentation system. The project 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 the same.

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 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 will give priority to the conditions stipulated in the Environment clearance Order.

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
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Compliance:

The project proponent is following approved mining plan for the extraction of building stones. 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 only in authorized pollution testing 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 programme of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	complied
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Compliance:

The project proponent has started occupational health surveillance programme in association with Primary Health Center (PHC) of Kerala government for the labours working in mining area and crusher.

PLATES

Plate No. 1



Board showing blasting time

Plate No. 2



Boundary Pillars

Plate No. 3



Sanitary Latrine and Urinals

Plate No. 4



Resting Room

Plate No. 5



No Smoking Board

Plate No. 6



Emergency Contact Numbers

Plate No. 7



Avenue Trees

Plate No. 8



Magazine

Plate No. 9



Sign Boards

Plate No. 10



Metallic Board

Plate No. 11



Eco restoration

Plate No. 12



Photograph of Mining Area

Plate No. 13



Photograph of Overburden

Plate No. 14



Photograph of Fencing

Plate No. 15



Green belt

Plate No. 16



First Aid

Plate No. 17



RWH pond

Plate No. 18



Fencing

Plate No. 19



Siren

Plate No. 20



Access road

Plate No. 21



De-siltation trap

Plate No. 22



Covered truck

ANNEXURE

Annexure No.1

GOVERNMENT OF INDIA
MINISTRY OF LABOUR
DIRECTORATE GENERAL OF MINES SAFETY

REGISTERED

NO. EXAM/EXEMPT/EM/R/1688/121

DHANBAD, DATED: 06/12/24

M E M O R A N D U M

Ref: His application dated 25/07/24 by virtue of Government Notification No. 7324EX, dated 13/12/24.

Shri: Ke. Sopa Khader Wali H/O K. Basha
of village D.No. 2/7 Akkaya Palla Thana Ravindra Nagar
District Cuddapah State A.P.
Born on 10/May, 1977 (seventy seven)

possessing a Diploma in Mining Engineering and Mine Surveying approved under Regulation 18 of Metalliferous Mines Regulations, 1961, and on completion of prescribed experience has become eligible to work in a capacity requiring possession of Foreman's Certificate Restricted to Mines having opencast workings only under Metalliferous Mines Regulations, 1961 with effect from 10 Jan 1981

fill the above Notification remains in force and he has been medically examined and declared fit as provided under Regulations 30(1) (a) of Metalliferous Mines Regulations, 1961.

Secretary,
Board of Mining Examination &
Director of Mines Safety (Exam).

M. S. Masrur
Director of Mines

Certificate of licensed Person

Annexure No.2

FORM D
[See clause (a) of rule 10 and clause (m) of sub-rule (1) of rule 40]
NOTICE

From: 24.10.2017

Shri. Jovin George
Madathinamattathil House
Paliseri, Thalassery
Pin 670101

To,


1. **The District Magistrate,**
Kannur District,
2. **The Deputy Director General of Mines Safety,**
Directorate General of Mine and Safety South Zone,
#5, 17th Main, 100ft. Road, 4th B-Block,
Koramangala, Bengaluru- 560 034
3. **The Regional Controller of Mines,**
Yeswantpur, Bengaluru - 560022
4. **Sr. Geologist,**
Department of Mining & Geology, Kannur District

1	a. Name of Mine	Narikode Stone Mine of Shri. Jovin George Office: Vazhamala, Poyiloor P.O, - 670 693. Kannur District, Kerala State.
	b. Name of Mineral	Granite Building Stone
	c. Situation of Mine	Village: Thripangottor Village, Post office: Poyiloor P.O Town: Thalassery, Taluk: Thalassery District: Kannur, State: Kerala State.
	d. Date when work was first started	10.01.2008
2	a. Name & postal address of present owner(s)	Jovin George Madathinamattathil House Palisseri Thalassery P O Kannur Dist 670101
	b. Name & postal address of agents if any	----
3	a. Name & postal address of manager if any	Mr. Kadappa Khader Vali, S/o K. Basha Door No: 2/83, Akkaya Palli Raveendra Nagar Post Kadappa (Dist) , Adrapradesh (State) - 516001
	b. His age	40 Years
	c. His qualification	Diploma in Mining Engineering Foreman certificate No. Exam/Exempt/FM/R/1688/121 dt. 06.12.2000
	d. His experience in Mining	10 years in open casting

Whether working are likely to be Extended below ground		Yes in future
5	a. Maximum depth of open cast excavation measured from its highest to its lowest point	Above ground 4 meters from its highest to lowest point
	b. Date when depth exceeded 6 meter	Not Yet reached 6meter depth
6	a. Nature, amount and kind of explosives used if any	Nitrate Mixture Slurry emulsion explosives Class 2 division 0 Class 6 division 1 Class 6 division 3
	b. Date when explosives were first used	20.04.2015

Thanking you

Yours faithfully


(Jovin George)
Mine Owner

Form D

Annexure No.3



KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/KNR/ICE/1915/2014

Date of issue :08/05/2020

INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No : PCB/KNR/ICO-R/488/2020

Ref : 1. Consent number:PCB/ KNR/ICO-R/360/2017 dated 23/05/2017

2. Application number:12884720 dated 28/02/2020

The 'Integrated Consent to Operate' issued as per reference above to M/s QUARRY OWNED BY JOVIN GEORGE, PATHIKAL, POYILOOR.P.O, KANNUR DT - 670693 is hereby renewed up to 30/04/2025 and issued to M/s QUARRY OWNED BY JOVIN GEORGE, PATHIKAL, POYILOOR.P.O, KANNUR DT - 670693 The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

I. GENERAL

S.No.	Items	Description
1	1.1 VALIDITY	30/04/2025
2	1.12 FEE REMITTED/YEAR	Rs. 22000/-
3	1.13 TOTAL FEE REMITTED	Rs. 150,800/-
4	1.16 ACTIVITY	QUARRYING OF ROCK IN 3.7556 HECTARES
5	1.14 CAPITAL INVESTMENT	Rs. 9,389,000/-

II. Stack Details

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

III. CONDITIONS

2.2 Application for the renewal shall be submitted before 28/02/2025.

2.6: If any statement in the affidavit furnished along with the renewal application is found false, the consent

issued will be revoked and further prosecution will be launched against the unit.

3.5 The particulate matter (PM 10) at the boundary of the premise shall not exceed 100 microgram/m³.

3.6 The particulate matter (PM 2.5) in ambient air at the boundary shall not exceed 600 microgram/m³.

4.2 Permanent fence made of wire mesh shall be provided and maintained along boundary of the approved quarry area.

4.6 There shall be a minimum distance of 50 m from the boundary of the quarry to the nearest residence, places of worship, railway line, bridge, river, lake, public building and road having public transport system.

4.12 After completion of quarrying, the land may be reclaimed as per the mining plan approved by the Department of Mining and Geology.

4.13 This consent is issued subjected to Environmental Clearance 04/2017 by District Environmental Impact Assessment Authority, Kannur No.01/KNR/2017/DEIAA Dated 22/05/2017 valid up to 21/05/2022.

4.14 This consent is valid only when the Environmental Clearance is valid.

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

ANITA KOYAN Digitally signed by ANITA KOYAN
Date: 2020.05.08 10:56:59 +05'30'

DATE :08/05/2020

SIGNATURE & SEAL OF ISSUING AUTHORITY
ENVIRONMENTAL ENGINEER



To

JOVIN GEORGE, MADATHINAMATTATHIL HOUSE, PALISERI, THALASSERY.P.O.,
THALASSERY, KANNUR DT - 670101

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.

Page2

Copy of Consent form PCB

Annexure No.4



Validity expires on 21.05.2022

**Proceedings of the District Environment Impact Assessment Authority
Kannur**

*Present: Sri.Mir Mohammed Ali I.A.S, Chairman; Sri. O Jayarajan I.F.S (Rtd), Member
;Sri.Suneel Pamidi.I.F.S,Member and
Sri. P.. Gangadaran, Member Secretary.*

Sub: DEIAA- Environmental clearance for the proposed Quarry project of Sri.Jovin George, Madathinamattathil, Palissery, Thalassery.P.O. for an area of 3.7556Hectares in Survey No. 275/1A of Tripangottur Village, Thalassery Taluk, Kannur District

DISTRICT ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY, KANNUR

No. 01/KNR/2017/DEIAA

Dated, 22/05/2017, Kannur

- Ref: 1. Online Application dated 17/01/2017 from Sri.Jovin George, Madathinamattathil, Palissery, Thalassery.P.O.
2. Minutes of the 3rd meeting of DEAC held on 17/03/2017.
3. Minutes of the 5th meeting of DEAC held on 04/05/2017.
4. Minutes of the 6th meeting of DEIAA held on 19/05/2017.

ENVIRONMENTAL CLEARANCE NO. 04/2017

Sri.Jovin George, Madathinamattathil, Palissery, Thalassery.P.O. Kannur District, Kerala vide his application received on 17/01/2017, has sought Environmental Clearance under EIA Notification, 2006 for the quarry project of an area of 3.7556Hectares in Survey No. 275/1A of Tripangottur Village, Thalassery Taluk, Kannur District. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 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) dtd. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares. As per gazette notification no SO 190(E) dtd 20/01/2016, Government of India and GO(Ms)no.05/2016/Envtd 04/04/2016, Govt:of Kerala DEIAA and DEAC constituted for considering the applications for environmental clearance less than 5 hectares in individual cases and 25 hectares in cluster


The proposed project site falls within Latitude: 11°47'50.59"N to 11°47'59.02"N and longitude 75°40'41.61"E to 75°40'51.60"E". The land area consists of 3.7556hectares, which is private land. The land use classification as per revenue records is



Page 1 of 5

Copy of Environmental Clearance

Annexure No. 5


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

संख्या (No.): E/SE/KL/22/18(E85231) दिनांक (Date): 07/02/2019

सेवा में | To,
JOVIN GEORGE,
 Madathinamattathil House, Palisseri, Thalassery P.O., Thalassery, Kannur, Town/Village - Palisseri
 District-KANNUR, State-Kerala, Pincode - 670101

विषय : Survey No.275/1A, ग्राम Tripangottur, जिला KANNUR, राज्य Kerala में विस्फोटक के मैगजीन में उपयोग के लिए कच्चा हेतु
 विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुज्ञप्ति सं E/SE/KL/22/18(E85231) के नवीनीकरण संदर्भ में।

Subject: Possession for Use of Explosives from magazine situated at Survey No.:275/1A, Tripangottur, Dist. KANNUR, Kerala -Licence
 No.: E/SE/KL/22/18(E85231) granted in Form LE-3 of Explosives Rules, 2008 - Renewal regarding


महोदय | Sir,

आपका उपर्युक्त विषय पर पत्र संख्या Nil दिनांक 30/01/2019 का संदर्भ ग्रहण करें। विस्फोटक नियम, 2008 के अंतर्गत प्ररूप LE-3 में जारी अनुज्ञप्ति दिनांक 31/3/2024 तक नवीनीकृत कर इस पत्र के साथ भेजी जा रही है।
 Reference to your letter No.: Nil dated: 30/01/2019, the subject licence duly renewed upto 31/3/2024 and issued in Form LE-3 of Explosives Rules, 2008 is forwarded herewith.

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

- प्ररूप आरई-1 में विधिवत पूर्ण एवं हस्ताक्षरित आवेदन।
 Application in Form RE-1 duly filled in and signed.
- एक से पाँच वर्ष के अनुज्ञप्ति शुल्क का बैंक ड्राफ्ट। बैंक ड्राफ्ट किसी भी राष्ट्रीयकृत बैंक के नाम आह्वित, संयुक्त मुख्य विस्फोटक नियंत्रक, चेन्नई के पक्ष में चेन्नई में देय हो।
 Licence fees for one to five years in the form of demand draft drawn on any Nationalized Bank in favour of **Jt. Chief Controller of Explosives, Chennai** payable at **Chennai**.
- अनुमोदित प्लान के साथ मूल 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 (इंडेंट) आपूर्तिकर्ता को दिया जाए और उसी की एक प्रति इस कार्यालय को भेजी जाए (आतिशबाजी गोदाम के लिए लागू नहीं)।
 Indent for purchase of explosives shall be placed in RE-11 with the supplier and copy of the same shall be sent to this office. (Not applicable for fireworks store house)
- कृपया विस्फोटकों की त्रैमासिक 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 रुपए 700/- की राशि शेष है जो इस संदर्भ को उद्धृत करते हुए भविष्य के संव्यवहार में समायोजित की जा सकती है।
 An amount of Rs. 700/- balance is in your credit, which may be utilized for future transaction by quoting this reference.

भवदीय | Your's faithfully

 (आर.वेणुगोपाल | Dr. R. Venugopal)
 उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives
 कोच्चि | Ernakulam
 Deputy Chief Controller of Explosives
 एरणाकुलम Ernakulam

प्रतिलिपि प्रेषित | Copy Forwarded to:
 1. जिला मजिस्ट्रेट (District Magistrate), KANNUR (Kerala)- सूचना के लिए (for information.)
 उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives
 कोच्चि | Ernakulam


(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क आदि के लिए हमारी वेबसाइट <http://peso.gov.in> देखें।)
 (For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)

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 1 of Schedule IV of Explosives Rules, 2008)

प्रयोग के लिए एक समय पर वर्ग 1,2,3,4,5 या वर्ग 7 के विस्फोटक या किसी मैगजीन में वर्ग 6 के विस्फोटक रखने के लिए अनुज्ञप्ति

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

अनुज्ञप्ति सं. (Licence No.): E/SE/KL/22/18(E85231)
वार्षिक फीस रूप (Annual Fee Rs): 2400/-



1. Licence is hereby granted to
JOVIN GEORGE (अधिभोगी / Occupier : JOVIN GEORGE), Madathinamattathil House, Palisseri, Thalassery P.O., Thalassery, Kannur, Town/Village - Palisseri, District-KANNUR, State-Kerala, Pincode - 670101

को अनुज्ञप्ति अनुदत्त की जाती है।

2. अनुज्ञप्तिधारी की प्रास्थिति | Status of licensee : **Individual**

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

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

क्र. Sr. No.	नाम और विवरण Name and Description	वर्ग और प्रभाग Class & Division	उप-प्रभाग Sub-division	मात्रा किसी एक समय में Quantity at any one time
1.	Nitrate Mixture	2,0	0	125 Kg.
2.	Safety Fuse	6,1	0	2000 Mtrs
3.	Electric and/or Ordinary Detonators	6,3	0	3000 Nos.

(ख) किसी एक कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा [अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञप्ति के लिए] : **25 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।
रेखाचित्र क्र. (Drawing No.) E/SE/KL/22/18(E85231)
दिनांक (Dated) 05/03/2015
The licensed premises shall conform to the following drawing(s): .

6. अनुज्ञप्ति परिसर निम्नलिखित पते पर स्थित हैं। The licensed premises are situated at following address:
Survey No. 275/1A , ग्राम (Town/Village) : Tripangottur
जिला (District) KANNUR राज्य (State) Kerala पुलिस थाना (Police Station) : Kolavalloor
दूरभाष (Phone) 9447485245 ई.मेल (E-Mail) पिनकोड (Pincode) 670693
फैक्स (Fax)

7. अनुज्ञप्ति परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं।
Two cemented magazines
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 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.

- 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.
- अनुज्ञप्ति प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञप्ति की शर्तें और अतिरिक्त शर्तें।
Conditions and Additional Conditions of this licence signed by the licensing authority.
- दूरी प्ररूप DE-2 | Distance Form DE-2.

9.

यह अनुज्ञप्ति तारीख 31 मार्च 2019 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March

यह अनुज्ञप्ति, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपवर्णित इस अनुज्ञप्ति की शर्तों का अधिक्रमण करने या यदि अनुज्ञप्त परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंज्ञित 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 - 05/03/2015

उप मुख्य विस्फोटक नियंत्रक | Dy. Chief Controller of Explosives
Ernakulam

Amendments :

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 15/03/2016
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 15/01/2018
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 08/08/2018
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 23/10/2018

Transfers :

- Change in Licensee Name/Address/Status dated : 10/07/2017

नवीनीकरण के पृष्ठांकन के लिए स्थान
Space for Endorsement of Renewal

नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature of licensing authority and stamp
07/02/2019	31/03/2024	Dy. Chief Controller of Explosives, Ernakulam उप मुख्य विस्फोटक नियंत्रक Deputy Chief Controller of Explosives एरनाकुलम Ernakulam

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

Copy of Explosive license

Annexure No. 6

* Validity of licence extended up to 31/03/2026 as per order no: 83-3935/21
Secretary, Thiriprangottoor Grama Panchayat



നമ്പർ: 103/2021-2022/A-3/B3-1211/21

T. P. MUSTHAFA
 Secretary
 Triprangottoor Grama Panchayat
 Kallikkandy P. O.
 തീയതി: 12/04/2021

തൃപ്രങ്ങോട്ടൂർ ഗ്രാമപഞ്ചായത്ത്
 കല്ലിക്കണ്ടി പി.ഒ., കണ്ണൂർ (ജില്ല)
 പിൻ: 670693, ഫോൺ: 0490-2462034, ഇ-മെയിൽ : triprangottoorgp@gmail.com

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

ലൈസൻസിയുടെപേര്	ജോവിൻ ജോർജ്ജ്		
ലൈസൻസിയുടെ മേൽവിലാസം	മംത്തിനാമറ്റത്തിൽ ഹൗസ്, പാലിശ്ശേരി, തലശ്ശേരി		
സ്ഥാപനത്തിന്റെ പേരും, സ്ഥലനാമവും	ക്വാറി		
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	കരിങ്കൽ ഖനനം നടത്തുന്നതിന്		
വാർഡ് നമ്പർ/കെട്ടിട നമ്പർ	II/റിസ.275/1A		
ലൈസൻസ് കാലാവധി	01/04/2021 മുതൽ 31/03/2022 വരെ *		
ലൈസൻസ് ഫീസ്	തുക	രസീത് നമ്പർ	തീയതി
മോട്ടോർ ഫീസ്	5000 /- രൂപ	120010106567	27/03/2021
തൊഴിൽ നികുതി	2500 /- രൂപ	120010106568	27/03/2021
ലൈസൻസ് അനുവദിക്കുന്നതിന് ഹാജരാക്കിയ നിരാക്ഷേപ പത്രങ്ങളുടെ വിശദാംശങ്ങൾ (നമ്പർ, തീയതി, കാര്യമുള്ളവ, നൽകിയ അധികാര സ്ഥാപനം)	1. PCB യുടെ 08/05/2020 ലെ PCB/KNR/ICO-R/488/2020 നമ്പർ നിരാക്ഷേപ പത്രം, (VALIDITY 30/04/2025), PCB യുടെ 19/06/2018 ലെ PCB/KNR/ICO-R/360/17 നമ്പർ നിരാക്ഷേപ പത്രം (VALIDITY 30/04/2023) 2. Department of Mining and Geology Kannur, Consent NO 367/2018- 2019, 3326/M3/2018/DMG Dated 16/08/2018, Department of Mining and Geology Kannur, Consent NO 409/2017-18/8825/M3/2016/DMG Dated 16/08/2017 3. ചീഫ് കൺട്രോളർ ഓഫ് എക്സ്പ്ലോസീവ് ലൈസൻസ് (No. E/SC/KL/22/18(E85231) Renewed upto 31/03/2024),		

ഓഫീസ് മുദ്ര


സെക്രട്ടറി
 TRIPRANGOTTOOR GRAMA PANCHAYAT
 KALLIKKANDY P. O.
 തൃപ്രങ്ങോട്ടൂർ ഗ്രാമപഞ്ചായത്ത്

Copy of license from Gram Panchayat

Annexure No.7

PROCEEDINGS OF THE DIRECTOR OF MINING & GEOLOGY

Sub: Mining & Geology - Mines & Minerals - Minor Minerals – Granite Building Stone – Quarrying Lease to **Shri. Jovin George, Madathinamattathil House, Palisseri, Thalassery. P. O, Kannur District – 670 101** –sanctioned – orders – issued.

Ref: 1. Application dtd. 21/02/2017 from **Shri. Jovin George, Madathinamattathil House, Palisseri, Thalassery. P. O, Kannur District – 670 101**
 2. Letter No. DOC/M-5353/2016 dtd. 30/08/2016 from the Geologist, District Office, Kannur
 3. Pro.order. No. 01/KNR/2017/DEIAA dtd. 22/05/2017 of the District Environment Impact Assessment Authority, Kannur, Kerala
 4. Kerala Minor Mineral Concession Rules, 2015.

No. 409/2017-18/8825/M3/2016/DMG	Dated, Thiruvananthapuram 04/10/2017
-----------------------------------------	---------------------------------------------

ORDER

A quarrying lease is granted to **Shri. Jovin George, Madathinamattathil House, Palisseri, Thalassery. P. O, Kannur District – 670 101** to quarry **Granite (Building Stone)** over an area of **3.7556 Hectares** of land comprised in **Re - Sy. No. 275/1A of Tripangottur Village, Thalassery Taluk, Kannur District for 12 (Twelve) years** from the date of execution of the quarrying lease deed under the Kerala Minor Mineral Concession Rules, 2015 and as per the survey map issued by the **Tahsildar, Thalassery** and the approved Mining Plan and environmental clearance submitted by the applicant subject to the under mentioned conditions.

- Royalty is payable to Government as per Rule 32 of the Kerala Minor Mineral Concession Rules, 2015 in respect of minor mineral quarried and moved out of the quarry subject to revision from time to time on the basis of amendments to the schedule I of the said Rules.
- Dead rent is realizable under 40(1)(d) of the said rules subject to revision from time to time on the basis of amendments to the schedule II of the said rules.
- Surface rent realizable under 40(1)(e) of the said rules will be equal to the land revenue assessed by the Revenue Department subject to revision from time to time on the basis of the land revenue.
- The lessee shall execute a quarrying lease deed within a period of six months from the date of this order in form 'H' as per Rule 43 of the Kerala Minor Mineral Concession Rules, 2015.
- The lessee shall also deposit an amount of Rs 10,000/- (Rupees Ten Thousand only) per hectare as security deposit for the observance of the terms and conditions of the lease before the deed is executed as per rule 42 of the said rules. The lessee shall commence quarrying operation only after the deed is executed and registered.
- The quarrying area shall be demarcated and boundary stones fixed at the lessee's expenses before execution of the quarrying lease deed.
- The lessee shall not win and dispose of any type of dimension and decorative stones from the area over which the quarrying lease has been sanctioned on the strength of this order.
- The production of Granite (Building Stone) from the area covered under this grant shall be subject to the quantity specified in the Mining Plan submitted by the lessee and the same is restricted to **1,40,000 Metric Tonnes** per year.
- (i) The lessee shall erect a notice board in Malayalam at a prominent place with a minimum size of 1 metre X 1.5 metres in a metallic board near to the entrance of the quarry to the effect that it shall contain the name and address of the permit holder, mineral concession number and date, the mineral to extracted, permit number and date and its date of expiry, quantity of extraction permitted (if applicable). Area of extraction permitted, explosives used (if any), etc.
 (ii) The lessee shall erect a warning board with danger sign regarding operation of the quarry, 100 metres away by the side of the road leading to it.
- The lessee shall fence the lease area before the commencement of the quarrying operation for preventing accidents by falling of human beings, animals, vehicles or any materials into

Copy of Lease

Annexure No. 8

The Secretary,
Tripangottoor Panchayat,
Thalassery Taluk, Kannur District,
Kerala.

Dt. 29/05/2017

Sub:- Environmental Clearance (E.C.) – Proposed Quarry Project at Re-Survey No. 275/1A, Tripangottur Village, Tripangottur Panchayat, Thalassery Taluk, Kannur District, Kerala – Submission of the E.C. Order – Compliance to the condition of Environment Clearance – Reg.

Respected Sir,

1. This refers to the Environmental Clearance obtained to the proposed Quarry Project at Re-Survey No. 275/1A, Tripangottur Village, Tripangottur Panchayat, Thalassery Taluk, Kannur District, Kerala vide Order No. 1/KNR/2017/DEIAA dt. 22/05/2017.
2. We hereby submit a self attested copy of the Environment Clearance Order No. 1/KNR/2017/DEIAA dt. 22/05/2017. This is in compliance to the condition of the E.C. Order.

Kindly acknowledge the receipt of the same.

Thanking you,

Yours respectfully,

Jovin George,

Encl: As above



For Secretary
Tripangottoor Grama Panchaya
P. O. Kallikkandi-670 693

Copy of Acknowledgement

Annexure No. 9

**TEST REPORT**

Test Report No: 20210619/R030	Date: 24-06-2021	Page 1 of 1
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CUSTOMER DETAILS

Customer Name & Address	Mr. Jovin George Madathinamattathil House Palissery, Thalassery Kannur District
Customer Reference	Test Request dt. 19-06-2021

SAMPLE DETAILS

Product Category	Atmospheric Pollution	Sample Code	20210619/S030
Sample Name	Ambient Air	Sample Received on	21-06-2021
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	21-06-2021
Sampled by	Lab Authorized Sampler	Test Completed on	24-06-2021

DETAILS OF SAMPLING

Sampling Location	South West Boundary, Narikottumala	Date of Sampling	19-06-2021
Sampling Procedure	SEAL/ENL/GEN/SOP/02	Humidity	70 %

SAMPLING SITE DETAILS

Survey No	275/1 A		
Village	Thripangottor	Taluk	Thalassery
District	Kannur	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	39.4	Max 100
2	Particulate Matter, PM _{2.5}	EPA 40 CFR (Part 50) Appendix - L	µg/m ³	18.9	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

The results are related only to the samples submitted for analysis and this test report shall not be reproduced except in full, without the written approval of the laboratory.

Standard^S Environmental & Analytical Laboratories

Approval & Recognition: "A" Grade Laboratory approved by Kerala State Pollution Control Board.

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: sealab@gmail.com

Result of ambient air

Annexure No. 10

**TEST REPORT**

Test Report No: 20210619/R031	Date: 24-06-2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	Mr. Jovin George Madathinamattathil House Palissery, Thalassery Kannur District
Customer Reference	Test Request dt. 19-06-2021

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	20210619/S031
Sample Name	Ambient Noise	Monitoring Commenced on	19-06-2021 / 06:00
Monitoring Location	North Side Boundary, Narikottumala	Monitoring Completed on	20-06-2021 / 06:00
Test Method	IS 9989:1981 RA:2008	Monitored by	Lab Authorized Sampler

MONITORING SITE DETAILS			
Survey No	275/1 A		
Village	Thripangottor	Taluk	Thalassery
District	Kannur	State	Kerala

MONITORING RESULTS - Leq					
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	37.2	14:00	49.8	22:00	36.0
07:00	39.8	15:00	50.2	23:00	32.5
08:00	44.0	16:00	51.3	24:00	34.8
09:00	47.5	17:00	51.7	01:00	35.5
10:00	49.8	18:00	46.3	02:00	35.2
11:00	52.9	19:00	42.9	03:00	35.8
12:00	50.2	20:00	39.1	04:00	34.8
13:00	49.4	21:00	38.6	05:00	36.5

TEST RESULTS- CHEMICALPARAMETERS			
Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	48.3
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	35.2

Remarks:

End of Report

Shency Joy
Dy.TM-Chemical
Checked by:



Laiju P.N.
Laboratory Head
Authorized Signatory

The results are related only to the samples submitted for analysis and this test report shall not be reproduced except in full, without the written approval of the laboratory.

Standard^S Environmental & Analytical Laboratories

Approval & Recognition: "A" Grade Laboratory approved by Kerala State Pollution Control Board.

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 Noise level

Annexure No. 11

**TEST REPORT**

Test Report No: 20210619/R032	Date: 24-06-2021	Page 1 of 2
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CUSTOMER DETAILS	
Customer Name & Address	Mr. Jovin George Madathinamattathil House Palissery, Thalassery Kannur District
Customer Reference	Test Request dt. 19-06-2021

SAMPLE DETAILS			
Product Category	Water	Sample Code	20210619/S032
Sample Name	Surface Water	Sample Received on	21-06-2021
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	5°C
Sample Quantity & Packing	1L & 250ml Plastic Bottles	Test Commenced on	21-06-2021
Sampled by	Lab Authorized Sampler	Test Completed on	24-06-2021

DETAILS OF SAMPLING			
Sample Source	Stream Water	Date of Sampling	19-06-2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/01& SEAAL/MBL/SOP/06	Sample Temperature	30 °C

SAMPLING SITE DETAILS			
Survey No	275/1 A		
Village	Thripangottor	Taluk	Thalassery
District	Kannur	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	1.0	Max 5
2	Odour	IS 3025 (Part 5):2018	---	Agreeable	Agreeable
3	Turbidity	IS 3025 (Part 10):1984 RA 2017	NTU	0.4	Max 1
4	pH	IS 3025 (Part 11):1983 RA 2017	---	6.81	6.50 – 8.50
5	Conductivity	IS 3025 (Part 14):1984 RA 2019	µS/cm	94.9	---
6	Total Dissolved Solids	IS 3025 (Part 16):1984 RA 2017	mg/L	61.9	Max 500
7	Total Hardness as CaCO ₃	IS 3025 (Part 21):2009 RA 2019	mg/L	24.6	Max 200
8	Calcium as Ca	IS 3025 (Part 40):1991 RA 2019	mg/L	8.73	Max 75
9	Magnesium as Mg	IS 3025 (Part 46):1994 RA 2019	mg/L	3.41	Max 30
10	Chloride as Cl	IS 3025 (Part 32):1988 RA 2019	mg/L	10.9	Max 250

Shency Joy
Dy.TM-Chemical
Checked by



Salini T.S.
Microbiologist
Authorized Signatory

Laiju P.N.
Laboratory Head
Authorized Signatory

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**TEST REPORT**

Test Report No: 20210619/R032	Date: 24-06-2021	Page 2 of 2
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TEST RESULTS- CHEMICAL PARAMETERS

Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012
11	Total Alkalinity as CaCO ₃	IS 3025 (Part 23):1986 RA 2019	mg/L	24.6	Max 200
12	Iron as Fe	IS 3025 (Part 53):2003 RA 2019	mg/L	0.44	Max 1
13	Sulphate as SO ₄	IS 3025 (Part 24):1986 RA 2019	mg/L	2.83	Max 200

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

Laiju P.N.
Laboratory Head
Authorized Signatory

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Result of Water

[illegible]

Plant bill