

COMPLIANCE REPORT
OCTOBER 2021 – MARCH 2022

QUARRY PROJECT
M/S RAVEENDRA ROCK PRODUCTS PVT LTD

PATHANAMTHITTA DISTRICT
KERALA

GST: 32AAHCR1902Q1Z9

**Raveendra Rock Products Pvt. Ltd.**

Ezhumattoor P.O, Mallappally, Pathanamthitta (Dist), Kerala State, Pin- 689586,

Dt. 17-06-2022

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. 602/SEIAA/EC4/4629/2014

Sub :- Environment Clearance – Quarry project at Ezhumattoor Village & Panchayat, Mallappally Taluk, Pathanamthitta District, Kerala – Compliance Report – Second half - Reg.

Respected Sir,

The Quarry (Building stone) project was accorded Environmental Clearance for 3.4589 Ha. by order No. 602/SEIAA/EC4/4629/2014 dated 31-05-2016 by State Environmental Impact Assessment Authority, Kerala. The compliance report of **Second half** (October 2021 – March 2022) to the specific and general conditions of the Environment Clearance order is enclosed.

Thanking you,

Yours respectfully,

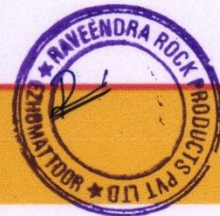
For M/s Raveendra Rock Products Pvt. Ltd

Copy to:-

The Member Secretary
State Environment Impact Assessment Authority (SEIAA),
Thiruvananthapuram, Kerala.

Encl: - As Above

E-mail: raveendrarockproducts@gmail.com
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ENVIRONMENTAL CLEARANCE ORDER

No: 602/SEIAA/EC4/4629/2014

Dated: 31-05-2016

BY

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA)

FOR

BUILDING STONE QUARRY

(MINOR MINERAL MINING) PROJECT

AT

**SURVEY Nos. 138/7-2, 137/11, 139/11, 139/6, 138/8, 138/4, 139/3,
139/7-1, 139/7, 139/10, 137/12-2, 137/3, 137/7, 137/9, 137/12-1, 139/2-2,
139/2, 139/4, 139/5,**

**EZHUMATTOOR VILLAGE & PANCHAYAT, MALLAPPALLY TALUK,
PATHANAMTHITTA DISTRICT, KERALA**

BY

M/S RAVEENDRA ROCK PRODUCTS PVT LTD.

PATHANAMTHITTA DISTRICT

KERALA



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INTRODUCTION

The quarry project of **M/s Raveendra Rock products Pvt. Ltd** is situated at survey No. 138/7-2, 137/11, 139/11, 139/6, 138/8, 138/4, 139/3, 139/7-1, 139/7, 139/10, 137/12-2, 137/3, 137/7, 137/9, 137/12-1, 139/2-2, 139/2, 139/4, 139/5, Ezhumattoor Village & Panchayat, Mallappally Taluk, Pathanamthitta District, Kerala.

The quarry project was accorded with the Environmental Clearance (EC) by State Environmental Impact Assessment Authority on 31-05-2016. 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 2021 – March 2022** is being submitted.



Brief of the Project

Type of Project	Quarry (Building stone)
Name of the project	M/s Raveendra Rock products Pvt Ltd.
Category of the project	B2
GPS Locations	Latitude (N) 9 ⁰ 25'54.72" to 9 ⁰ 25'45.88" Longitude (E) 76 ⁰ 42'24.74" to 76 ⁰ 42'18.42"
Address for correspondence	Mr. S. Raveendran , (Sole Proprietor) M/s Raveendra Rock products Pvt Ltd. , Eduvinampoikayil House, Ezhumattoor P.O., Pathanamthitta District, Kerala-689586.
E mail ID and Phone number of company	raveendrarockproducts@gmail.com Ph. 0469-2794794 / 2794260 Mobile No. 09446114258, 09562090007.
Name, Phone Number & e-mail id of responsible persons	Mr. S. Raveendran , (Managing Director)
Main Features	
Total area under Environment Clearance	3.4589 hectares
Minable reserves	9,00,000 MT
Production	1,50,000 MTA
Life of Mine	6 years
Highest and lowest elevation	147 m MSL and lowest is 87 m MSL
Crusher unit	Yes, within the project site
Environmental Settings	
Nearest house	105 m. NW
Nearest Water Body	Manimalayar River, 1.8 km., N Pamba River, 7.5 km., S
Nearest town	Mallappally 9 km, W
Nearest worship place	Church: Marthoma Church, Parakathanam, 2 km., W Temple : Elam Mahadeva Temple, 1 km., S Mosque : Perumpara, 2 km., N
Nearest hospital	PHC Ezhumattoor, 2 km., W
Nearest School	Vivekananda Vidhaya Peetah, 1.5 km., S
Seismic zone	Zone-III,



COMPLIANCE REPORT
(SPECIFIC CONDITIONS)
PART A



PART - A – SPECIFIC CONDITIONS

01	Fencing provided all around the lease area must be maintained.	complied
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Compliance:

To demarcate the lease area, The project proponent has installed fencing around the project site where Environmental Clearance and lease obtained. This is maintaining in good manner.

02	Over burden should be stored in the designated places (not here and there) and provided with protective support walls. Part of it can be used for restoration of old quarries.	complied
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Compliance:

As part of direction, the overburden and topsoil extracted during the time of mining are stored in designated places. In order to prevent sand slide, protective support walls were provided by the project proponent. Overburden is being used for restoration of old quarries.

03	The benches formed at different levels should follow the norms of 6m x 6m	Complied
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Compliance:

The project proponent has appointed a qualified person for extraction of minerals by creating benches. The height and width of the benches is as per norms of Department of mining and geology.

04	Storm water drainage from the upper part must be channelized properly to the lowest part and let out through well defined channels. It should be connected to the RWH.	complied
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Compliance:

The project proponent has constructed drainage in some portion of the mining area to channelize the rain water in to rain water harvesting pond. The project proponent has constructed traps to clarify the water.

05	The RWH structure and water clarification mechanism must be provided and maintained throughout. Periodic de siltation is mandatory.	complied
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Compliance:

The project proponent has two ponds in the project site and it has been working as a de siltation chamber to prevent quarry waste to enter in to the public drain and stream. The project proponent has maintained pond by removing all sediments during the time of summer season. To de silt the surface runoff the project proponent has constructed de siltation traps.

06	Ultimate depth of mine which will depend on the possible benches of 5m width and 5 m height in the lease area but should be blow the river bed of Manimala river located about 2 Km to North.	complied
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Compliance:

The mining of minor mineral is progressing by creating benches under the supervision and control of mining engineer. This project is working under the guidelines and conditions of State Environment Impact Assessment Authority (SEIAA) and Director General of Mine Safety (DGMS). The mining does not go beyond the riverbed of Manimala.



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:

The project proponent has developed one rain water harvesting pond in the project site. The storm water flow is leading to the pond through drainage. The excess clear water is flowing to the public draining after proper filtration. The water from pond is mainly used for crusher work, watering of plants, wetting of roads and sprinkler system for contain dust emission. 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:

To monitor the conditions stipulated in the EC order, the project proponent has constituted an Environment Monitoring Cell (EMC) with Mr. S Raveendran as head of the cell. The meetings of the cell convened periodically and evaluate the activities towards the stipulations of Environmental Clearance order. The details of the monitoring cell are given below in the **Table No.1.**

Table 1 - Environmental Monitoring Cell (EMC)

Sl. No.	Post	Name
1	Head of monitoring cell (proprietor)	Mr. S. Raveendran
2	Member	Vineeth
3	Member	Rajendran

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 plants as avenue trees along either side of the roads, parking area and other areas in the project land. There are natural vegetations including trees, shrubs, herbs and climbers also present in the project area. This will help to reduce air and sound pollution. The details of vegetation are given below in **Table No 2**.

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

Sl. No.	Scientific Name	Common Name	Family	Type
1.	Swietenia macrophylla	Mahogany	Meliaceae	Tree
2.	Chrysophyllum cainito	Sappotta	Sapotaceae	Tree
3.	Tectona grandis	Thekku	Verbenaceae	Tree
4.	Chromolaena odorata	Communist-pacha	Compositae	Shrub
5.	Rosa bracteata	Rose	<u>Rosaceae</u>	Shrub
6.	Murraya paniculata	Mramulla	<u>Rutaceae</u>	Shrub
7.	Ziziphus oenopolia	Thodalli	Rhamnaceae	Climber
8.	Nerium oleander	Arali	Apocynaceae	Small 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 project proponent has installed solar system in the project site. The installation of solar can reduce the consumption from conventional sources therefore the project proponent 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:

To reduce air pollution and to prevent dust emissions from the road while transportation of materials, the project does splashes the haulage road and critical



areas with the help of vehicles in regular intervals. The sprinklers are also installed in the project site. This help to suppress dust during the time summer season. The photograph of effective utilization of sprinklers is provided at **Plate No. 2**.

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

As part of eco restoration, the project proponent has started to plant various saplings within the project area. The mine closure plan will be done at own cost of project proponent as agreed in the proposal.

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 after closure of the mine. The remaining area will be reclaimed with stacked dumping of overburden and top soil. As part of its eco – restoration plan, the proponent has initiated steps to plant indigenous species as part of concurrent eco restoration.

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

The project proponent has carried out many activities under Corporate Social Responsibility (CSR) the main activity was an air condition and its stabilizer provided to the press club Mallappilly. The cost incurred for the project was 52,500.



09	The lease area shall be fenced off with barbed wires to a maximum height of 5 ft 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 and as part of safety, 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 5 ft. All the boundary indicators are protected at all times and clearly visible at any time in a notifiable way.

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 give a prior notice to public and labors, the project proponent has installed warning alarms in the quarry site as per the stipulation of Explosive department. This warning alarm is properly working prior to the blasting time. The photograph of warning alarm is attached as **Plate No. 3**. It is properly working prior to the blasting.

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

To reduce noise level in the project site, 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., 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. This helps to limit the sound pollution. The quarry working time is 8 am to 5.00 pm.

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 fly rock and ground vibration, the blasting is done in controlled manner by using NONEL Technology. All blasting activities are carrying out with the stipulated guidelines of explosive department and other concerned agency. The blasting time is displayed in the sign board and all blasting happens in the specified timings. The blasting time is from 9:30am to 10:00am and 2:00pm to 2:30pm



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

The project proponent has appointed Mines manager, foreman and mining mates in the project site to supervise/control the blasting operations for the extraction of granite building stones. The certificate of Foreman, mining mate, and mines manager 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.	Complied
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Compliance:

To contain dust emissions and for the trouble free transportation of materials, the project proponent has concreted 200 meter of access road and maintaining in good manner. The project proponent splashes water on the road to arrest the dust production during summer season.

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 extract during the time of mining, these natural resources is staked in the project site. This is being used for plantation, haulage roads and land filling in the mining area

17	Height of the benches should not exceed 6m, and width should not be less than 6m, if there is no mention is the mining plan/specific conditions.	complied
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Compliance:

To enhance safety and conserve environment, the project proponent extracted the minerals by creating benches. The benches do not exceed 5 meters of height and the width of the bench will have minimum of 5 meters. **Plate No.4** showing the work progressing in the quarry area.

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

The mat is using during blasting time to prevent fly rock. The correct quantity of explosive is used under the supervision of qualifies person

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

The mining depth from general ground level does not exceed 10 meters.

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 is carried 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.	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 helps to reduce noise and



air pollution. This helps the noise level kept within prescribed standards. The crusher machineries are enclosed by solid bricks and covers.

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 project proponent ensured that all storm water from the mining area is flowing in to the pond created at mining area. The project proponent has constructed drains with clarifiers in the lower slopes of the project area for storm water management. The clarifiers prevent the quarry wastes entering in to the public stream.

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 trucks are covered to avoid dust emission from the vehicle while transportation of materials. Photograph of covered truck is attached as **Plate No. 5**

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



The project proponent 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.

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

The spent oil sold only to the approved recyclers, some time it is using as lubricant in the project site.

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

As per the stipulation of competent authority, the project proponent has storing the explosives in magazine. The magazine was situated in an isolated place specified and approved by the explosives department. Photograph of magazine is attached as **Plate No. 6**

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 prevent possible fly rock and vibration to nearby houses, 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 to the nearest house is 102 meters form the quarry.

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 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.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 other 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	Approval Number & Date
“Consent to Operate” (Renewal)	Kerala State Pollution Control Board	PCB/PTA/QR/153/2013 Dt.24-03-2021
Environmental Clearance order	State Environmental Impact Assessment Authority, Kerala	602/SEIAA/EC4/4629/2014 Dt.31-05-2016
Explosive License	Ministry of Commerce & Industry – Petroleum & Explosives Safety Organization	E/SC/KL/22/118(E11248) Dt. 31-01-2020
License for quarry operations	Gram Panchayath	C7-1570/2021 Dt. 21-05-2021
Lease	<i>Mining and Geology Dept.</i>	No.470/2016-17/12907/M3/2015 Dt. 01-11-2016



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 proponent will apply for 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:

The project proponent is aware and agreed with right of authority 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.

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.	Complied
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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

- **The Environment Protection Act,1986**
- **Water (Prevention and Control of Pollution) Act, 1974**
- **The Air (Prevention and Control of Pollution) Act, 1981**
- **The Public Liability (Insurance) Act,1991**
- **Municipal Solid Waste (Management and Handling) Act,2000**
- **Hazardous and Other Wastes (Management and handling) Rules, 1989.**
- **EIA notification, 2006**
- **The Kerala Minor Mineral Concession Rules 2015**

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 /	Complied
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	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.	
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Compliance:

As per the condition stipulated in the Environmental Clearance order, a copy of the environmental clearance letter was submitted to Grama Panchayat office. There were no suggestions/representations received while processing the proposal.

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 regularly submitting the compliance report to the competent authorities. The compliance report is being submitted to the Directorate of Environment and Climate Change, Govt. of Kerala and the Regional Office of MoEF&CC, Govt. of India with the results of monitored data as Email. The result of monitored data is provided in **Annexure No. 7, 8 and 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 detail of the Environmental Clearance has display on metallic board in the project site. The metallic board installed as specified in the conditions of Environmental Clearance order.

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:

At present, 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 proponent 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.	Complied
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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 sprinkling water at loading point after each blast, on the roads and at unloading points. The crushing plant is equipped with water sprinklers at appropriate points. This activity reduces the fugitive emission of dust.

43	The top soil, if any, shall be temporarily be 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 staked 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.	Complied
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Compliance:

The top soil and overburden is 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 State Environment Impact Assessment Authority (SEIAA).



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 will be directed to the rain water collection pond. All sediments and silts will be settled at the bottom of the pond and only cleared water let out. The water from the pond is used for sprinkling of water on roads and for the overhead mist lines to arrest the dust emission. NO silt is going out with storm water.

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 an 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 spraying water in critical areas prone to air pollution with the help of vehicle and sprinklers. The project proponent will increase the number of sprinklers in critical area to reduce the dust emission such as loading and un - loading points, haul roads and transfer points.

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	Complied
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	maintained.	
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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.

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 proponent constitutes an Environment Monitoring Cell with Mr. S. Raveendran 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 other purpose. Year wise expenditure should be reported to the State Environment Impact assessment authority (SEIAA) office.	complied
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Compliance:

The project proponent could execute many activities under Corporate Social Responsibility (CSR) /Corporate Environmental Responsibility (CER) for community development. To implement these activities in a good manner, the project proponent has opened 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 can 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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There was no such appeal against the EC at NGT

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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All submitted data were factual and true. No data was concealed by the project proponent during appraisal of the project.

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	Noted
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	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.	
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Compliance:

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

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 gives 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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The project proponent is intending to apply for life of mine of the quarry project.

56	The environmental clearance will be subjected 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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There is no pending litigation in any court of Law against the project or land.

57	The mining operation shall be restricted to above ground water table and is should not intersect ground water table.	complied
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Compliance:

The project proponent restricts 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 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 installed de siltation trap and other mechanism to prevent sediments and wastes from the mining area 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	Complied
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	to dust and take corrective measures, if needed.	
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Compliance:

The project proponent has conducted an occupational health surveillance program for the labours working in mining area and crusher.



PLATES



Plate No. 1



Rain Water Harvesting Pond

Plate No. 2



Water spraying using tanker vehicle



Plate No. 3



Warning alarm

Plate No. 4



Mining area



Plate No. 5



Covered trucks

Plate No. 6




Magazine



ANNEXURE



Annexure No.1



KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/PTA/QR/153/2013
Date of issue :24-03-2021

CONSENT VARIATION ORDER

Consent No : QCO/PTA/234/2019

Ref : 1)File No : PCB/PTA/QR/153/2013
2)Consent No : QCO/PTA/234/2019, Issue Date : 12/07/2019, Validity : 30/05/2021
3)Online Application Number:15179204 submitted on 16/02/2021

The ' Integrated Consent to Operate' issued as per reference above to M/s RAVEENDRA ROCK PRODUCTS, EZHUMATTOOR P.O., MALLAPPALLY, PATHANAMTHITTA - 689586 is hereby modified & issued to M/s RAVEENDRA ROCK PRODUCTS, EZHUMATTOOR P.O.,MALLAPPALLY, PATHANAMTHITTA-689586. The consent(s)/ variation order(s) cited under reference are integral part of this consent variation order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

I. GENERAL

S.No.	Items	Description
1	Validity	30/05/2022

II. CONDITIONS

2.1 This consent is granted based on the application, affidavit, old environmental clearance certificate and other particulars submitted by the occupier, and subject to the power of the Board to review and make variation in the conditions or revoke the consent as the Board deems fit.

2.2 The Validity of this consent is subject to subsequent Government Order & direction / judgement of Honorable Supreme Court of India, High Court, and National Green Tribunal.

2.3 The consent unless withdrawn earlier and subject to condition no. 2.1 & 2.2 shall be valid up to 30.05.2022. For renewal of consent, application may be submitted online 2 months in advance of expiry of validity date, along with the re-validated Environmental Clearance Certificate.

2.4 The applicant shall comply with the instructions that the Board may issue from time to time regarding prevention and control of air, water and land pollution.

Page 1



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

DATE : 24/03/2021

SUCHITRA V Digitally signed by SUCHITRA V
Date: 2021.03.24 21:25:06 +05'30'

SIGNATURE & SEAL OF ISSUING AUTHORITY
ENVIRONMENTAL ENGINEER



To
Sri .S.Raveendran
Eduvinampoikayil House
Ezhumatoor P.O.
Mallappally
Pathanamthitta-689586.

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.

II. CONDITIONS

- 2.1 This consent is granted based on the application, affidavit, and environmental clearance certificate and other particulars submitted by the occupier, and subject to the power of the Board to review and make variations in the conditions or revoke the consent as the Board deems fit.
- 2.2 The Validity of this consent is subject to subsequent Government Order & direction / judgement of Honorable Supreme Court of India, High Court, and National Green Tribunal.
- 2.3 The consent unless withdrawn earlier and subject to condition no. 2.1 & 2.2 shall be valid up to 30.05.2022. For renewal of consent, application may be submitted online 2 months in advance of expiry of validity date, along with the re-validated Environmental Clearance Certificate.
- 2.4 The applicant shall comply with the instructions that the Board may issue from time to time regarding prevention and control of air, water and land pollution.

Copy of Consent form PCB



Annexure No.2*Validity expires on 30-05-2021*

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

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

Sub: Environmental clearance for the quarry project in Sy. Nos. 138/7-2, 137/11, 139/11, 139/6, 138/8, 138/4, 139/3, 139/7-1, 139/7, 139/10, 137/12-2, 137/3, 137/7, 137/9, 137/12-1, 139/2-2, 139/2, 139/4, 139/5 at Ezhumattoor Village & Panchayath, Mallappally Taluk, Pathanamthitta District, Kerala by Sri. S. Raveendran- E.C. Granted.

State Environment Impact Assessment Authority, Kerala

No. 602/SEIAA/EC4/4629/2014

Dated: 31-05-2016

- Ref:
1. Application dated 24-9-2014 from Sri. S. Raveendran, Managing Director, M/s Raveendra Rock Products Pvt. Ltd, Eduvinampoikayil House, Ezhumattoor P.O., Pathanamthitta District, Kerala-689586.
 2. Minutes of the 45th meeting of SEAC held on 11/09/2015.
 3. Minutes of the 53rd meeting of SEAC held on 25/26-2-2016.
 5. Minutes of the 52nd meeting of SEIAA held on 29-04-2016.

ENVIRONMENTAL CLEARANCE NO. 72 / 2016

Sri. S. Raveendran, M/s Raveendra Rock Crushing Unit, Eduvinampoikayil House, Ezhumattoor P.O, Pathanamthitta District vide his application received on 30-9-2014 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. Nos. 138/7-2, 137/11, 139/11, 139/6, 138/8, 138/4, 139/3, 139/7-1, 139/7, 139/10, 137/12-2, 137/3, 137/7, 137/9, 137/12-1, 139/2-2, 139/2, 139/4, 139/5 at Ezhumattoor Village & Panchayath, Mallappally Taluk, Pathanamthitta District, Kerala for an area of 3.4589hectares. 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 given below.

Page 1 of 7

Copy of Environmental Clearance



Annexure No.3.

अनुज्ञापति प्ररूप एल. ई.-3 | LICENCE FORM LE-3
(विस्फोटक नियम, 2008 की अनुसूची 4 के भाग 1 के अनुच्छेद 3(क) से (घ) देखिए।)
(See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008)
(ग) उपयोग के लिए एक समय पर वर्ग 1,2,3,4,5 या वर्ग 7 के विस्फोटक या किसी मैगजीन में वर्ग 6 के विस्फोटक रखने के लिए अनुज्ञापति
Licence to possess : (c) for use,explosives of class 1, 2,3,4,5,6 or 7 in a magazine
अनुज्ञापति सं. (Licence No.) : E/SC/KL/22/118(E11248)
वार्षिक फीस रूपए (Annual Fee Rs): 3000/-

1. Licence is hereby granted to
Shri S. RAVEENDRAN Managing Director (अधिभागी / Occupier : S RAVEENDRAN Managing Director), M/s. Raveendra Rock Products (P) Ltd., Edivuinampoikayil House, Ezhumattoor (v), Mallapally Taluk., Town/Village - Ezhumattoor, District-PATHANAMTHITTA, State-Kerala, Pincode - 689586
को अनुज्ञापति अनुदत्त की जाती है।

2. अनुज्ञापतिधारी की प्रास्थिति | Status of licensee : **Company**

3. अनुज्ञापति निम्नलिखित प्रयोजनों के लिए विधिमान्य है।
Licence is valid only for the following purpose. : possess for use of **Nitrate mixture - Emulsion Explosives, Safety Fuse, Detonators, Detonating Cord**, - के उपयोग के लिए

4. अनुज्ञापति 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 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 - Emulsion Explosives	2,0	0	100 Kg.
2.	Safety Fuse	6,1	0	1200 Mtrs
3.	Detonators	6,3	0	1000 Nos.
4.	Detonating Cord	6,2	0	1000 Mtrs

(ख) किसी एक कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा [अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञापति 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 अनुज्ञापति परिसर की पुष्टि होती है।
The licensed premises shall conform to the following drawing(s): . रेखाचित्र क्र. (Drawing No.) E/SC/KL/22/118 : (E11248)
दिनांक (Dated) 24/02/2000

6. अनुज्ञापति परिसर निम्नलिखित पते पर स्थित हैं। The licensed premises are situated at following address:
Survey No(s). 89/4 , ग्राम (Town/Village) : **EZHUMATTOOR**
जिला (District) **PATHANAMTHITTA** राज्य (State) **Kerala** पिनकोड (Pincode)
दूरभाष (Phone) ई. मेल (E-Mail) फेक्स (Fax)

7. अनुज्ञापति परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं।
The licensed premises consist of following facilities. **One C type portable magazine fabricated by M/S. Everest Granites and one G-type portable magazine fabricated by M/S.Nobel Engg and Fabrication Unit,Kerala**

8. अनुज्ञापति समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबद्धों 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.
- अनुज्ञापति प्राधिकारी ब्याररा हस्ता.क्षरित इस अनुज्ञापति की शर्तों और अतिरिक्त शर्तों।
Conditions and Additional Conditions of this licence signed by the licensing authority.
- दूरी प्ररूप DE-2 | Distance Form DE-2.

9. यह अनुज्ञापति तारीख **31 मार्च 2001** तक विधिमान्य रहेगी। This licence shall remain valid till **31st day of March**



2001.
 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 प्रतिसंहत 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.

Sd/-

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

तारीख | The Date - 24/02/2000

Amendments :

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 12/10/2011
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 20/10/2016
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 24/08/2017

Transfers :

- Change in Licensee Name/Address/Status dated : 19/04/2016

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
31/01/2020	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 दंडिक अपराध होगा।
Statutory Warning : Mishandling and misuse of explosives shall constitute serious criminal offence under the law.

Copy of Explosive



Annexure No.4



ലൈസൻസ് നമ്പർ : സി7 - 1570/2021 **തീയതി: 21.05.2021**

എഴുമറ്റൂർ ഗ്രാമപഞ്ചായത്തിൽ നിന്നും

1994 ലെ കേരള പഞ്ചായത്ത് രാജ് ആക്ട് (1994 ലെ 13) 232, 233, 234, 254 എന്നീ വകുപ്പുകളും അതെ തുടർന്നുള്ള ചട്ടങ്ങളും അനുസരിച്ച്

ഫാക്ടറികൾ, വ്യാപാരങ്ങൾ, സംരംഭങ്ങൾ, മറ്റു സേവനങ്ങൾ എന്നിവയ്ക്കായി നൽകുന്ന

ലൈസൻസ്

ലൈസൻസിയുടെ പേരും മേൽവിലാസവും	എസ് രവീന്ദ്രൻ മാനേജിംഗ് ഡയറക്ടർ രവീന്ദ്ര റോക്ക് പ്രോഡക്ട്സ് പ്രൈവറ്റ് ലിമിറ്റഡ് എഴുമറ്റൂർ പി ഒ	
സ്ഥാപനത്തിന്റെ പേരും സ്ഥാലനാമവും	രവീന്ദ്ര റോക്ക് പ്രോഡക്ട്സ് പ്രൈവറ്റ് ലിമിറ്റഡ് എഴുമറ്റൂർ	
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	കാറി പ്രവർത്തനം	
സർവ്വേ നം.	139/2, 139/2-2, 139/3, 139/4, 139/5, 139/6, 139/7-1, 139/7, 139/10, 139/11, 137/3, 137/7, 137/9, 137/11, 137/12-1, 137/12-2, 138/4, 138/7-2, 138/8.	
ലൈസൻസ് കാലയളവ്	01.04.2021 മുതൽ 31.03.2022 വരെ.	
ഇടയാക്കിയ ലൈസൻസ് ഫീസ്	₹ 10000/- (D&O) (2021-22)	രസീത് നമ്പർ : 120020102988, തീയതി : 01.03.2021
	850 HP Motor - ₹ 8500/- (2021-22)	
	തൊഴിൽക്കരം	₹ 2500/- (2021-22).
ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരീക്ഷണപത്രങ്ങളുടെ വിവരങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാരസ്ഥാനം)	1. State Environment Impact Assessment Authority Kerala's Environment Clearance No. 72/2016 Dated 31.05.2016 for above said 19 Survey Nos. 2. Quarrying Lease No. 470/2016-17/12907/M3/2015 of The Director of Mining & Geology Thiruvananthapuram Dated 01.11.2018. 3. Petroleum & Explosives Safety Organisation (PESO) Licnese No. E/SE/KL/22/56(E85779) Dated 23.03.2020. valid up to 31/03/2025. 4. കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡിന്റെ 24/03/2021 തീയതിയിലെ 30/05/2022 തീയതി വരെ കാലാവധിയുള്ള QCO/PTA/234/2019 നം. ഇൻഗ്രേറ്റഡ് കൺസെന്റ് ടു ഒപ്പറേറ്റ്.	



(ഓഫീസ് മുദ്ര)





സെക്രട്ടറി
എഴുമറ്റൂർ ഗ്രാമ പഞ്ചായത്ത്



സെക്രട്ടറി
എഴുമറ്റൂർ ഗ്രാമപഞ്ചായത്ത്
തെള്ളിയൂർ പി.ഒ. 689544
ഫോൺ: 0469 - 2650528

Copy of License for quarry operations from Gram Panchayath.



Annexure No.5

PROCEEDINGS OF THE DIRECTOR OF MINING & GEOLOGY

- Sub :** Mining & Geology-Mines & Minerals - Minor Minerals – Granite Building Stone – Quarrying lease to, M/s Raveendra Rock Products Pvt. Ltd, Ezhumattoor .P.O, Mallappally, Pathanamthitta (Represented by Sri. S. Raveendran, Managing Director) – sanction– orders issued.
- Ref :**
1. Application dated 23/09/2015 from M/s Raveendra Rock Products Pvt. Ltd, Ezhumattoor .P.O, Mallappally, Pathanamthitta
 2. Letter No. 1759/ DOPTA/M/2015 dtd 22/12/15 from the Geologist, District Office Pathanamthitta
 3. Kerala Minor Mineral Concession Rules, 2015.
 4. Pro.Order.No.602/SEIAA/EC4/4629/2014 dtd 31/05/2016 of the State Environment Impact Assessment Authority, Thiruvananthapuram, Kerala

No. 470/2016-17/12907/M3/2015

Dated, Thiruvananthapuram, 01/11/2016

ORDER

A quarrying lease is granted to M/s Raveendra Rock Products Pvt. Ltd, Ezhumattoor. P.O, Mallappally, Pathanamthitta (Represented by Sri. S. Raveendran, Managing Director) to quarry Granite(Building Stone) over an area of 3.4589 hectares of private land comprised in Survey Nos. 139/2, 139/2-2, 139/11, 139/4, 139/5, 139/6, 139/10, 139/7, 139/7-1, 139/3, 138/4, 138/7-2, 138/8, 137/9, 137/12-1, 137/12-2, 137/11, 137/7, 137/3 of Ezhumattoor Village, Mallappally Taluk, Pathanamthitta District for **6 (Six) 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 Mallappally and the approved Mining Plan and environmental clearance submitted by the applicant subject to the under mentioned conditions.


1. 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.
2. Dead rent is realizable under of the said rules subject to revision from time to time on the basis of amendments to the schedule II of the said rules.
3. Surface rent realizable under 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.
4. 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.
5. 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.
6. The quarrying area shall be demarcated and boundary stones fixed at the lessee's expenses before execution of the quarrying lease deed.
7. 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.
8. 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. But the quantity of extraction is restricted to 130000 Metric Tonnes per year as applied.
9. (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 be extracted, permit number and date


Copy of Lease




Annexure No.6

Cert No. FR/4742

 सत्यमेव जयते

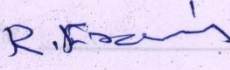


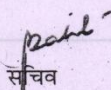


भारत सरकार/Government of India
खान अधिनियम, 1952/Mines Act, 1952
खनन परीक्षा बोर्ड/Board of Mining Examinations
खान फोरमैन सक्षमता प्रमाण-पत्र
(केवल ओपेनकास्ट खानों तक सीमित)
(Restricted to mines having opencast workings only)
MINE FOREMAN'S CERTIFICATE OF COMPETENCY
(धात्विकीय खान विनियम, 1961 के अन्तर्गत)
(Under the Metalliferous Mines Regulations, 1961)

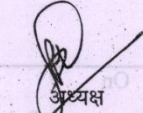
श्री फ्रांसिस आर् सुपुत्र एस. राजामणी
जिनकी जन्म तिथि 11.03.1974 है, को विहित अर्हताएं एवं अनुभव प्राप्त करने का सन्तोषजनक प्रमाण प्रस्तुत करने एवं अगस्त, 2016 में आयोजित विहित परीक्षा में उत्तीर्ण होने पर एतद्द्वारा केवल ओपेनकास्ट धात्विकीय खान के लिए फोरमैन प्रमाण-पत्र प्रदान किया जाता है। यह प्रमाण-पत्र दिनांक 20.06.2017 से प्रभावी है।

Shri Francis AR son of S. Rajamani
born on 11th March, 1974 having given satisfactory evidence of possessing the prescribed qualifications and experience and having passed the examination held in August, 2016 is hereby granted MINE FOREMAN'S CERTIFICATE OF COMPETENCY for metalliferous mine having opencast workings only. This certificate is effective from 20.06.2017




सचिव
खनन परीक्षा बोर्ड
Secretary
Board of Mining
Examinations


R. FRANCIS
S/o RAJAMANI
RAVEENDRA ROCK
PRODUCTS PVT
LTD.
EZHMATTOR


अध्यक्ष
खनन परीक्षा बोर्ड
Chairman
Board of Mining
Examinations

Signed and Sealed
Date 19.02.18

Certificate of Foreman





सत्यमेव जयते


खान अधिनियम 1952
THE MINES ACT 1952

द्वितीय श्रेणी प्रबंधक सक्षमता प्रमाण-पत्र धातुउत्पादक खान के प्रबंध हेतु
MANAGER'S SECOND CLASS CERTIFICATE OF COMPETENCY TO MANAGE A METALLIFEROUS MINE
(धातुउत्पादक खान विनियम, 1961 के अन्तर्गत)
(Under the Metalliferous Mines Regulations 1961)

राजेंद्रन


जिनकी जन्म तिथि 07.03.61 है, विनियम 18 के अन्तर्गत अनुमोदित खनन अभियांत्रिकी में डिप्लोमा प्राप्त करने पर एवं दिनांक **जून, 1989** को आयोजित विहित परीक्षा में उत्तीर्ण होने पर एतद्वारा धातुउत्पादक खान के प्रबंध हेतु द्वितीय श्रेणी प्रबंधक समक्षता प्रमाण-पत्र प्रदान किया जाता है। यह प्रमाण-पत्र **29-01-1990** से प्रभावी समझा जाएगा।

Rajendaran
born on **07th March, 1961** possessing a Diploma
in Mining Engineering approved under Regulation 18 and having passed the prescribed examination held on **June, 1989** is hereby granted MANAGER'S SECOND CLASS CERTIFICATE OF COMPETENCY to manage a metalliferous mine. This Certificate is effective from **29-01-1990**



सदस्य
खनन परीक्षा बोर्ड
Members of the Board of
Mining Examinations.

Signed and Sealed
Date: 02 JUL 1991



अध्यक्ष
खनन परीक्षा बोर्ड
Chairman of the Board of
Mining Examinations

Certificate of Mines manager



 <p>सत्यमेव जयते</p>		 <p>VINOD KUMAR.V.R.</p>
<p>Cert No. BR/52/0209</p>		
<p>भारत सरकार/Government of India</p>		
<p>खान अधिनियम, 1952/Mines Act, 1952</p>		
<p>खनन परीक्षा बोर्ड/Board of Mining Examinations</p>		
<p>विस्फोटकर्ता सक्षमता प्रमाण-पत्र</p>		
<p>BLASTER'S CERTIFICATE OF COMPETENCY</p>		
<p>(केवल ओपनकास्ट खानों तक सीमित)</p>		
<p>(Restricted to mines having opencast workings only)</p>		
<p>(धात्विकीय खान विनियम, 1961 के अन्तर्गत)</p>		
<p>(Under the Metalliferous Mines Regulations, 1961)</p>		
श्री	सुपुत्र	
जिनकी जन्म तिथि		है, को अपनी आयु, स्वस्थता, सदाचार,
साक्षरता और धात्विकीय खानों में काम करने के विहित अनुभव का सन्तोषजनक प्रमाण प्रस्तुत करने एवं दिनांक		केन्द्र पर आयोजित विहित परीक्षा में
को		उत्तीर्ण होने पर एतद्द्वारा केवल ओपनकास्ट खानों तक सीमित विस्फोटकर्ता सक्षमता प्रमाण-पत्र प्रदान किया
जाता है।		जाता है।
Shri VINOD KUMAR V.R.	son of S. RAGHAVAN NAIR	
born on 20 TH MAY, 1973 (SEVENTY THREE)	having given satisfactory evidence of his age,	
medical fitness, good character, literacy and prescribed experience of working in metalliferous		
mines and having passed the prescribed examination held at GVTC, C.N.HALLI, TUMKUR		
centre on 11.08.2016	is hereby granted BLASTER'S CERTIFICATE OF COMPETENCY	
	restricted to mines having opencast workings only.	
		
बाएँ हाथ के अंगूठे का निशान		
Left hand thumb impression		
अंचल सचिव	अंचल सचिव	अध्यक्ष
खनन परीक्षा बोर्ड	खनन परीक्षा बोर्ड	खनन परीक्षा बोर्ड
Zonal Secretary	Zonal Secretary	Chairman
Board of Mining Examinations	Board of Mining Examination	Board of Mining Examinations
	Southern Zone, Bengaluru.	
Signed and Sealed		
Date 05/10/16		

Certificate of Blaster



Annexure No.8

**TEST REPORT**

Test Report No: 20220221/R046	Date: 25-02-2022	Page 1 of 1
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CUSTOMER DETAILS

Customer Name & Address	Mr. S. Raveendran Managing Director M/s Raveendra Rock Products (P) Ltd Ezhumattoor , Mullapally Pathanamthitta District
Customer Reference	Test Request dt. 21-02-2022

SAMPLE DETAILS

Product Category	Atmospheric Pollution	Sample Code	20220221/S046
Sample Name	Ambient Air	Sample Received on	22-02-2022
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	22-02-2022
Sampled by	Lab Authorized Sampler	Test Completed on	24-02-2022

DETAILS OF SAMPLING

Sampling Location	West Side Boundary	Date of Sampling	21-02-2022
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	71%

SAMPLING SITE DETAILS

Survey No	138/6, 137/5, 137/4, 137/6, 137/1-2,137/2, 137/8, 137/8-1, 132/2, 132/2-1, 132/2-2, 132/2-3, 138/5, 138/3, 139/2, 139/2-2, 139/11, 139/4, 139/5, 137/7, 139/6, 139/10, 139/7, 139/7-1, 139/3, 138/4, 137/3, 138/7-2, 138/8, 137/9, 137/12/1, 137/12/2, 137/11		
Village	Ezhumattoor	Taluk	Mallappally
District	Pathanamthitta	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	54.2	Max 100
2	Particulate Matter, PM _{2.5}	IS 5182 (Part 24):2019	µg/m ³	22.8	Max 60
3	Sulphur Dioxide as SO ₂	IS 5182 (Part 2): 2001	µg/m ³	< 2.00	Max 80
4	Oxides of Nitrogen as NO ₂	IS 5182 (Part 6): 2006	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, Pathalem, 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

Copy of monitoring result of ambient air



Annexure No.9

**TEST REPORT**

Test Report No: 20220221/R047	Date: 25-02-2022	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	Mr. S. Raveendran Managing Director M/s Raveendra Rock Products (P) Ltd Ezhumattoor , Mullappally Pathanamthitta District
Customer Reference	Test Request dt. 21-02-2022

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	20220221/S047
Sample Name	Ambient Noise	Monitoring Commenced on	21-02-2022/ 06:00
Monitoring Location	At Project Site	Monitoring Completed on	22-02-2022/ 06:00
Test Method	IS 9989:1981 RA:2008	Monitored by	Lab Authorized Sampler

MONITORING SITE DETAILS			
Survey No	138/6, 137/5, 137/4, 137/6, 137/1-2, 137/2, 137/8, 137/8-1, 132/2, 132/2-1, 132/2-2, 132/2-3, 138/5, 138/3, 139/2, 139/2-2, 139/11, 139/4, 139/5, 137/7, 139/6, 139/10, 139/7, 139/7-1, 139/3, 138/4, 137/3, 138/7-2, 138/8, 137/9, 137/12/1, 137/12/2, 137/11		
Village	Ezhumattoor	Taluk	Mallappally
District	Pathanamthitta	State	Kerala

MONITORING RESULTS - Leq					
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	38.8	14:00	52.0	22:00	37.6
07:00	41.6	15:00	52.4	23:00	35.6
08:00	46.0	16:00	53.6	24:00	38.2
09:00	49.6	17:00	54.0	01:00	38.9
10:00	52.0	18:00	48.4	02:00	38.5
11:00	55.2	19:00	44.8	03:00	39.3
12:00	52.4	20:00	40.8	04:00	38.2
13:00	51.6	21:00	40.3	05:00	40.0

TEST RESULTS- CHEMICALPARAMETERS			
Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	50.5
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	38.4

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

Copy of monitoring result of Noise



Annexure No.10

**TEST REPORT**

Test Report No: 20220221/R048	Date: 25-02-2022	Page 1 of 2
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CUSTOMER DETAILS	
Customer Name & Address	Mr. S. Raveendran Managing Director M/s Raveendra Rock Products (P) Ltd Ezhumattoor , Mullappally Pathanamthitta District
Customer Reference	Test Request dt. 21-02-2022

SAMPLE DETAILS			
Product Category	Water	Sample Code	20220221/S048
Sample Name	Pond Water	Sample Received on	22-02-2022
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	5°C
Sample Quantity& Packing	1L & Plastic Bottles	Test Commenced on	22-02-2022
Sampled by	Not Drawn By Laboratory	Test Completed on	24-02-2022

SAMPLING SITE DETAILS			
Survey No	138/6, 137/5, 137/4, 137/6, 137/1-2,137/2, 137/8, 137/8-1, 132/2, 132/2-1, 132/2-2, 132/2-3, 138/5, 138/3, 139/2, 139/2-2, 139/11, 139/4, 139/5, 137/7, 139/6, 139/10, 139/7, 139/7-1, 139/3, 138/4, 137/3, 138/7-2, 138/8, 137/9, 137/12/1, 137/12/2, 137/11		
Village	Ezhumattoor	Taluk	Mallappally
District	Pathanamthitta	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	Max 5
2	Odour	IS 3025 (Part 5):2018	---	Agreeable	Agreeable
3	Turbidity	IS 3025 (Part 10):1984 RA 2017	NTU	0.3	Max 1
4	pH	IS 3025 (Part 11):1983 RA 2017	---	7.38	6.50 – 8.50
5	Conductivity	IS 3025 (Part 14):1984 RA 2019	µS/cm	288	---
6	Total Dissolved Solids	IS 3025 (Part 16):1984 RA 2017	mg/L	187	Max 500
7	Total Hardness as CaCO ₃	IS 3025 (Part 21):2009 RA 2019	mg/L	108	Max 200
8	Calcium as Ca	IS 3025 (Part 40):1991 RA 2019	mg/L	36.0	Max 75

Shency Joy
Dy.TM-Chemical
Checked by



Salini T.S.
Microbiologist
Authorized Signatory

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



**TEST REPORT**

Test Report No: 20220221/R048	Date: 25-02-2022	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
9	Magnesium as Mg	IS 3025 (Part 46):1994 RA 2019	mg/L	4.38	Max 30
10	Chloride as Cl	IS 3025 (Part 32):1988 RA 2019	mg/L	12.9	Max 250
11	Total Alkalinity as CaCO ₃	IS 3025 (Part 23):1986 RA 2019	mg/L	38.2	Max 200
12	Iron as Fe	IS 3025 (Part 53):2003 RA 2019	mg/L	0.19	Max 1
13	Sulphate as SO ₄	IS 3025 (Part 24):1986 RA 2019	mg/L	9.42	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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Standard^S Environmental & Analytical Laboratories

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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

Copy of monitoring result of Water

