

# **COMPLIANCE REPORT**

**OCTOBER 2020 – MARCH 2021**

**QUARRY PROJECT OF BINU CHERIYAN**

Malappuram District

Kerala

Dt.31-05-2021

**From**

**Binu Cherian,**

Thakkirickal House,  
Chelad P O, Kothamangalam,  
Kerala. Pin: 686681

**To**

**The Additional Principal Chief Conservator of Forests (C)**

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

**Ref :-FileNo. 839/SEIAA/EC1/2717/2015**

**Sub:- Environment Clearance – Quarry project at Village & Panchayat  
Edayur, Thirur Taluk, Malappuram District, Kerala– Compliance  
Report –Second half – Reg.**

**Respected Sir,**

The Quarry (Building stone) project was accorded Environmental Clearance for **2.6872Ha.** by order No. **839/SEIAA/EC1/2717/2015**, dated 05/02/2016 by State Environmental Impact Assessment Authority, Kerala. The compliance report of **Second Half** (October 2020 – March 2021) to the specific and general conditions of the Environment Clearance order is enclosed.

Thanking you,

Yours respectfully,



**Binu Cherian**

Encl: - As Above

**Copy to :The Chairman & The Member Secretary**

State Environment Impact Assessment Authority (SEIAA)  
Thiruvananthapuram, Kerala – 695 024.

**COMPLIANCE REPORT**

**TO**

**THE CONDITIONS**

**OF**

**ENVIRONMENTAL CLEARANCE ORDER**

**No: 839/SEIAA/EC1/2717/2015**

**DATED: 05-02-2016**

*BY*

**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY  
(SEIAA)**

**FOR**

**BUILDING STONE QUARRY  
(MINOR MINERAL MINING) PROJECT**

*AT*

**SURVEY NOS. 101/5, 101/6,  
VILLAGE & PANCHAYAT EDAYUR, THIRUR TALUK,  
MALAPPURAM DISTRICT, KERALA**

**BY**

**MR. BINU CHERIAN,  
THAKKIRICKAL HOUSE, CHELAD P.O,  
KOTHAMANGALAM, ERNAKULAM DISTRICT**

**KERALA**

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## INTRODUCTION

Quarry project of **Sri. Binu Cheriyan** Thakkirickal House, Chelad P. O Kothamangalam, Ernakulam District is a building metal stone quarry located at Survey No. 101/5, 101/6,, Edayur Village, Edayur Panchayat, Thirur Taluk, Malappuram District, Kerala.

The quarry project was accorded with the Environmental Clearance (EC) by State Environmental Impact Assessment Authority on 05-02-2016. As part of general condition No.37 of Environmental Clearance order, half yearly compliance report needs to be submitted by the project proponent. The compliance report of Second half to the specific conditions and general conditions of the Environmental Clearance order for the period of **October 2020 – March 2021** is being submitted.

Since the validity of quarry permit expired in October 2020, the project proponent did not conduct any quarrying activities in the project site from November to till date.

# **COMPLIANCE REPORT**

## **(GENERAL CONDITIONS)**

**GENERAL CONDITIONS**

<b>1</b>	<b>Rain Water Harvesting capacity should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified elsewhere.</b>	<b>Complied</b>
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**Compliance**

To collect rain water from the entire project land, the proponent has constructed a trench with a width of 6-7 meter and length of 30 meter to collect storm water from the upper slope of the project. The storm water flow is leading to the trench through natural drainage. The water from pond is mainly used for watering of plants, wetting of roads and sprinkler system for contain dust emission. A pond was constructed for rain water harvesting.

<b>2</b>	<b>Environment Monitoring Cell (EMC) as agreed under the affidavit filed by the proponent should be formed and made functional.</b>	<b>Complied</b>
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**Compliance**

The project proponent has constituted Environmental Monitoring Cell (EMC). The EMC appointed Mr. Judy James as head of the monitoring cell. The EMC meetings of the cell convene periodically and evaluate the activities towards the stipulations of Environmental Clearance order. The details of the monitoring cell are given below

**TABLE No. 1 - ENVIRONMENTAL MONITORING CELL (EMC)**

Sl. No.	Post	Name
<b>1.</b>	Head of the monitoring cell	Judy James
<b>2.</b>	Member	Nithesh
<b>3.</b>	Member	Varghese

<b>3</b>	<b>Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, inclusive of</b>	<b>Being complied</b>
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	<b>approach road and internal roads.</b>	
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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 details of vegetation are given below.

**TABLE No. 2 - Details of the natural vegetation existing along the road side**

Sl. No.	Scientific Name	Common Name	Family	Habit
1.	<i>Mucuna bracteata</i>	Thottapayar	Fabaceae	Climber
2.	<i>Swietenia mahagoni</i>	Mahagony	<i>Meliaceae</i>	Tree
3.	<i>Bambusa bambos</i>	Mula	<i>Poaceae</i>	Herb
4.	<i>Chromolaena odorata</i>	Communist-pacha	Compositae	Shrub
5.	<i>Cocos nucifera</i>	Thengu / Coconut	Arecaceae	Tree
6.	<i>Mangifera indica</i>	Mavu	Anacardiaceae	Tree
7.	<i>Tectona grandis</i>	Thekku	Verbenaceae	Tree
8.	<i>Ziziphus oenopolia</i>	Thodalli	Rhamnaceae	Climber

<b>04</b>	<b>Maximum possible solar energy generation and utilization shall be ensures as an essential part of the project.</b>	<b>Complied</b>
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### **Compliance:**

The project proponent has installed solar street lights to maximum possible solar energy generation and utilization

<b>05</b>	<b>Sprinklers shall be installed and used in the project site to contain dust emissions.</b>	<b>Complied</b>
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### **Compliance:**

To prevent dust emissions from the road while transportation of materials, the project proponent is splashing water on roads. There is sufficient water in the rain

water harvesting ponds for the purpose. The sprinklers installed in and around the crusher unit.

<b>06</b>	<b>Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.</b>	<b>Noted</b>
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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. The list of tree/shrub/herb saplings planted in the project site is given below in **table No. 3**.

**TABLE 3 Details of the saplings planted within the project area**

Sl. No.	Scientific Name	Common Name	Family	Habitat
1	<i>Mucuna bracteata</i>	Thottapayar	Fabaceae	Climber
3	<i>Artocarpus heterophyllus</i>	Plavu	<i>Moraceae</i>	Tree
4	<i>Capsicum frutescens</i>	Kantharimulaku	<i>Solanaceae</i>	Herb
5	<i>Carica papaya</i>	Papaya	<i>Caricaceae</i>	Tree
6	<i>Cocos nucifera</i>	Thengu	<i>Arecaceae</i>	Tree
7	<i>Curcuma longa</i>	Manjal	<i>Zingiberaceae</i>	Herb
8	<i>Mangifera indica</i>	Mavu	<i>Anacardiaceae</i>	Tree
9	<i>Musa paradisiaca</i>	Vazha	<i>Musaceae</i>	Herb
10	<i>Swietenia mahagoni</i>	Mahagony	<i>Meliaceae</i>	Tree
11	<i>Tectona grandis</i>	Thekku	<i>Verbenaceae</i>	Tree

<b>07</b>	<b>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.</b>	<b>Noted</b>
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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

<b>08</b>	<b>Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented</b>	<b>complied</b>
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***Compliance:***

As part of Corporate Social Responsibility (CSR)/ Corporate Environmental Social Responsibility (CER) the project proponent spent amount in various sectors for community development.

<b>09</b>	<b>The lease are shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mine.</b>	<b>Complied</b>
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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.

<b>10</b>	<b>Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.</b>	<b>Complied</b>
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***Compliance:***

As per the stipulation of Explosive department and State Environment Impact Assessment Authority the project proponent has installed warning alarms in the quarry site.

<b>11</b>	<b>Control measures on noise and vibration prescribed by KSPCB should be implemented.</b>	<b>complied</b>
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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

<b>12</b>	<b>Quarrying activities should be limited to day time as per KSPCB guidelines.</b>	<b>Complied</b>
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**Compliance:**

Quarrying activities are limited to day time only as per KSPCB guidelines. The quarry working time is 7.30 am - 5 pm. This will help to limit the sound pollution.

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

14	<b>A licensed person should supervise/control the blasting operations.</b>	<b>complied</b>
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**Compliance:**

The project proponent has appointed a licensed person having certificate of short fire to supervise/control the blasting operations for the extraction of granite building stones.

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

To contain dust emissions, the project has tarred the access road of 250 meter and maintaining in good manner. The project proponent splashes water on the road to prevent dust emission. The project proponent is regularly maintaining the access road.

16	<b>Overburden materials should be managed within the site and the old quarries, if any, should be restored.</b>	<b>complied</b>
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**Compliance:**

The overburden and topsoil is managed within the site. This is used for plantation, haulage roads and land filling in the lease area. To conserve top soil grass is planted.

17	<b>Height of the benches should not exceed 5m and width should not be less than 5m.</b>	<b>Being complied</b>
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**Compliance:**

As part of safety, the project proponent conducts mining by creating benches. The benches will not exceed 5 meters of height. The project maintains the width of benches minimum of 5 meters.

18	<b>Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.</b>	<b>Noted</b>
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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 a qualified person.

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

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

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

There is no area seen with slope greater than 45° in the area where Environment Clearance and Lease is obtained.

21	<b>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.</b>	<b>Complied</b>
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**Compliance:**

To reduce sound amplification, the machines of crusher unit is housed with solid bricks. A green belt is also developed around the unit to reduce noise and air

pollution. This helps the noise and sound level is kept within the prescribed standards. The labours in the unit are wearing ear plugs to reduce the impact of noise generating from the machines. The project proponent is maintained all machineries in a good manner.

22	<b>The workers on the site should be provided with the required protective equipments such as ear muffs, helmet, etc</b>	<b>Complied</b>
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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	<b>Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.</b>	<b>Noted</b>
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***Compliance:***

The proponent is very conscious to prevent all quarry waste to enter in the the public drainage or stream. The project proponent 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. The clarifiers will be installed soon.

24	<b>The transportation of minerals should be done in covered trucks to contain dust emissions.</b>	<b>Complied</b>
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***Compliance:***

All vehicles with loaded materials are going outside as covered trucks to contain dust emissions.

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

The project proponent has been planting various saplings in the project area as a compensation of loss of trees while clearing the land for mining.

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

The used oil was sold to the approved recyclers as specified under relevant Rules/Regulations.

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

The Explosives are stored in magazine. The magazine is situated in an isolated place specified and approved by the explosives department.

28	<b>A minimum buffer distance of hundred meters from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided.</b>	<b>Complied</b>
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**Compliance:**

The project proponent has left minimum buffer distance of hundred meters from the boundary of the quarry to the nearest dwelling unit.. The distance of the nearest house was 129 meter form the quarry, the KSPCB condition is 50 meter.

29	<b>100 m buffer distance should be maintained from forest boundaries.</b>	<b>Complied</b>
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**Compliance:**

There is no forest area near to the project site.



30	<b>Consent from Kerala Pollution Control Board under water and Air act(s) should have been obtained before initiating activity.</b>	<b>Complied</b>
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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	<b>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.</b>	<b>Complied</b>
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**Compliance:**

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

**TABLE 5 – APPROVALS FROM COMPETENT AUTHORITIES**

Name of the Statutory approval	Name of the Statutory authority	Approval Number & Date
<b>Environmental Clearance order</b>	State Environmental Impact Assessment Authority, Kerala	839/SEIAA/EC1/2717/2015 Dated 05-02-2016
<b>“Consent to Operate”</b>	Kerala State Pollution Control Board	PCB/CVO/R1/EXP/1142/19 22-03-2019
<b>Explosive License</b>	Ministry of Commerce & Industry – Petroleum & Explosives Safety Organization (PESO)	E/SC/KL/22/779(E636254) Dated 22-02-2017
<b>License for quarry operations</b>	Gram Panchayath	A4-814/2020-21-..222 dated 29-04-2020
<b>Permit order</b>	Directorate of Mining and Geology	21/2019-20/GR/DOM/M-2784/2019

		Dated 16-10-2019
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32	<b>In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority</b>	<b>Noted</b>
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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	<b>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.</b>	<b>Noted</b>
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**Compliance:**

The project proponent is willing to add additional safe guard measures subsequently if the authority found necessary.

34	<b>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.</b>	<b>Being complied</b>
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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

**1. The Environment Protection Act,1986**

2. Water (Prevention and Control of Pollution) Act, 1974
3. The Air (Prevention and Control of Pollution) Act, 1981
4. The Public Liability (Insurance) Act, 1991
5. Municipal Solid Waste (Management and Handling) Act, 2016
6. Hazardous and Other Wastes (Management and Handling) Rules, 2016.
7. EIA notification, 2006

<b>35</b>	<p><b>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 <a href="http://www.seiaakerala.org">www.seiaakerala.org</a>. <u>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.</u></b></p>	<b>Complied</b>
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***Compliance:***

An advertisement in two local newspapers regarding Environmental Clearance accorded to the quarry project was given within the stipulated period and the copy of the same was submitted at SEIAA Kerala.

<b>36</b>	<p><b>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.</b></p>	<b>Complied</b>
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***Compliance:***

To comply the conditions and as part of procedure to obtain D & O license, 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 does not give the copy of clearance latter to anyone. The project does not have a website and it will create a company website soon.

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 hand 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 the Directorate of Environment and Climate Change, Govt. of Kerala.	<b>Complied</b>
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**Compliance:**

The compliance of the stipulated specific and general conditions of Environmental Clearance is being submitted to the State Environment Impact Assessment Authority Govt. of Kerala, and also to the Regional Office of MoEF&CC, Govt. of India as mail. The monitored data of Air, Water and Noise is attached as **Annexure No. 6, 7 & 8**

39	<b>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 extant of lease area and boundaries shall be depicted at the entrance of the quarry, visible to the public.</b>	<b>complied</b>
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**Compliance:**

The specific 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 was installed.

39	<b>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.</b>	<b>Complied</b>
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**Compliance:**

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


40	<b>The above conditions shall prevail notwithstanding anything to the contrary; in consistent, or simplified, contained any other permit, license on consent given by any other authority for the same project.</b>	<b>Noted</b>
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**Compliance:**

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

**ANNEXURE**

## Annexure No.1



**KERALA STATE POLLUTION CONTROL BOARD**

FILE NO. :10275352  
Date of issue :2019-03-22

**CONSENT VARIATION ORDER**

**Consent No : PCB/CVO/RI/EXP/1142/19**

**Ref : 1.PCB/CO/RI/EXP/1142/17 DATED 01.04.2017**  
**2.ENVIRONMENTAL CLEARANCE NO.11/2016**

The ' Integrated Consent to Operate' issued as per reference above to M/s QUARRY OWNED BY BINU CHERIYAN,EDAYUR, KAREKAD P.O, VALANCHERY,MALAPURAM is hereby modified & issued to M/s QUARRY OWNED BY BINU CHERIYAN,EDAYUR, KAREKAD P.O, VALANCHERY,MALAPURAM 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	1.1 VALIDITY	04.02.2021
2	1.14.ACTIVITY	Quarrying in 2.6872 hectares of land in survey No.101/5 and 101/6 at Edayur village ,Tirur Taluk in Malappuram district

**II. CONDITIONS**

5.3.For renewal of the consent in case of continuance of discharge/operation of the industry, application in the prescribed form shall be submitted through the web portal of the Board for Online Consent Management & Monitoring System 2 months before the end of validity period. Late application will be accepted only with a fine /late fee as applicable.

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

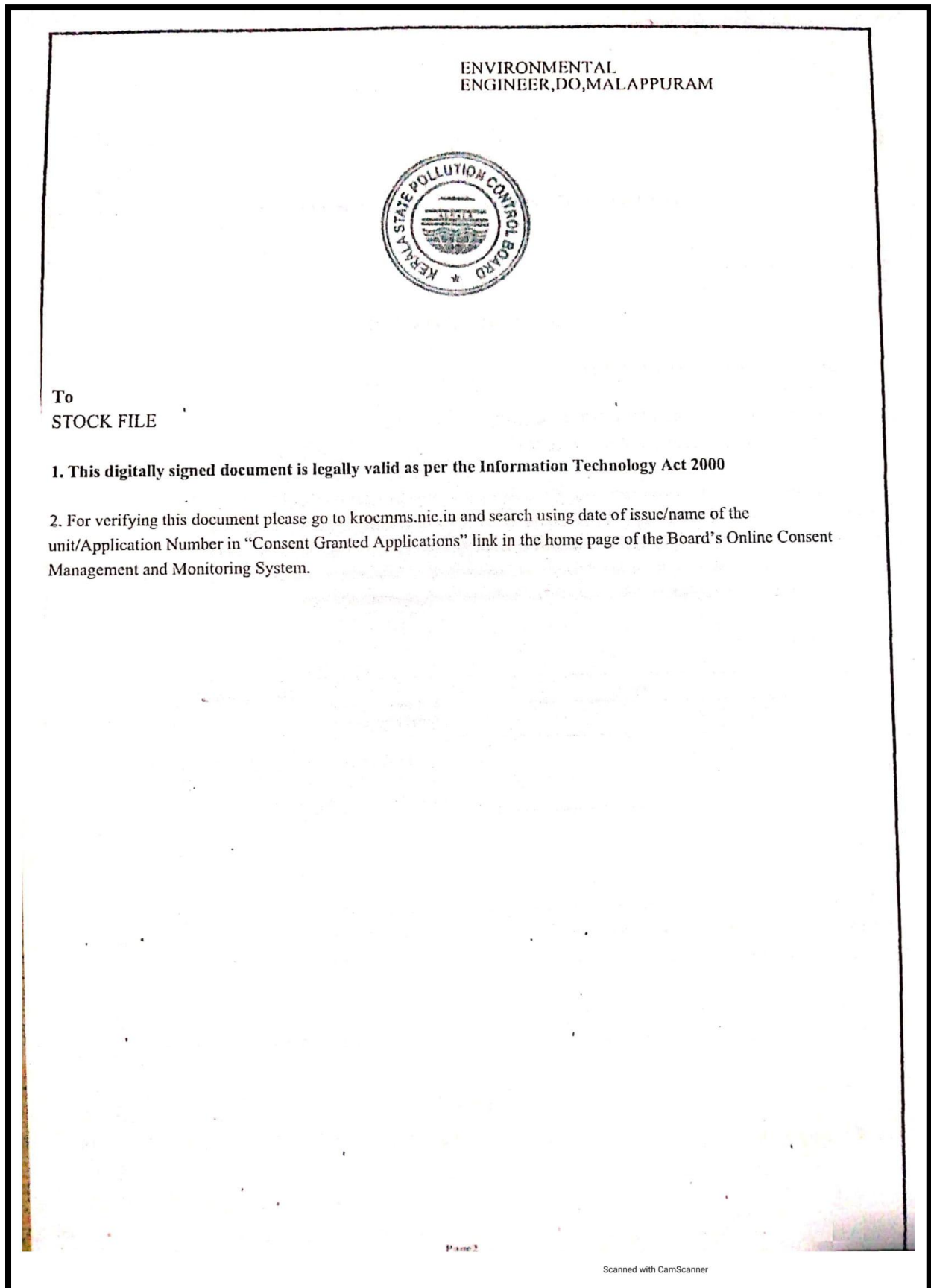
**VINAYA K S**  
SIGNATURE & SEAL OF ISSUING AUTHORITY

Digitally signed by VINAYA K S  
Date: 2019.03.22 16:40:37 +05'30'

DATE :22/03/2019

Page 1


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**Copy of Consent from PCB**



## Annexure No. 2



सत्यमेव जयते

Validity expires on 04-02-2021

**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: SEIAA- Environmental Clearance for the proposed building stone quarry project in Survey Nos. 101/5 and 101/6 at Edayur Village, Edayur Panchayath, Thirur Taluk, Malappuram District by Sri. Binu Cheriyan, Thakkirickal House, Chelad P.O., Kothamangalam, Ernakulam District-686681-Granted- Orders issued.

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**STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY**

**No. 839/SEIAA/EC1/2717/2015** *dated, Thiruvananthapuram 05-02-2016*


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*Read: - 1. Application dated 07-07-2015 submitted by Sri. Binu Cheriyan, Thakkirickal House, Chelad P.O., Kothamangalam, Ernakulam District-686681*  
*2. Minutes of the 48<sup>th</sup> meeting of SEAC held on 06/07-11-2015.*  
*3. Minutes of the 47<sup>th</sup> meeting of SEIAA held on 07-01-2016.*

**Environmental Clearance No. 11/2016.**

Sri.Binu Cheriyan, Thakkirickal House, Chelad P.O., Kothamangalam, Ernakulam District-686681, vide his application received on 14-07-2015 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. Nos. 101/5 and 101/6 at Edayur Village, Edayur Panchayath, Thirur Taluk, Malappuram District, Kerala for an area of 2.6872 hectares. The project comes under Category B, Activity 1(a),(i) as per the Schedule of EIA Notification 2006 (since it is below 50hectares) and as per O.M. No. L-11011/47/2011-IA.II (M) dated 18th May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

2. This is an existing Quarry. The quarry was in operation with a short term quarrying permit issued by Mining & Geology Department, Government of Kerala for an area of 0.4046 hectares. The land use as per revenue records is private own land of 3.6460 hectares. Main rock type in the area is granite and the area is mineral specific and hence no alternate site was examined. The present land use is some native trees, shrubs, herbs etc. The proposed project is for quarrying of 100,000 MTA of building stone from an area of 2.6872 hectares of land. Domestic effluent will be discharged in septic tank and soak pit system. The quarry operation is proposed to carry out with conventional open cast semi-mechanized mining by maintaining the bench height and width to 5.0 meter. Considering the stability of rocks the final slope or ultimate pit slope is proposed 45° from vertical. Mining will be carried out from the top to bottom by slicing of 2.5 m thick. The mineral exploitation is being done from 150 m MSL to 85 m MSL for the expected life of ten years. At the end of life of mine, excavated area will be converted into water pond and plantation. A storm water collection pond is proposed for





Copy of EC order

## Annexure No.3

अनुमति प्रारूप एलई -10 | Form LE-10  
 शॉट फायरिंग कर्ता प्रमाण-पत्र | Shot Firer's Certificate  
 (अनुसूची IV के भाग 1 का अनुच्छेद 10 देखें | See article 10 of Part I of Schedule IV)  
 [विस्फोटक नियम, 2008 का नियम 107(5) देखें | see rule 107(5) of Explosives Rules, 2008]

(खान अधिनियम, 1952 के अधीन न आने वाले क्षेत्र में विस्फोट करने के लिए सक्षमता प्रमाण  
 (Certificate of competency to carry out blasting of explosives in area not coming under the Min-

संख्या | No.: E/SE/KL/30/358(E64051)

प्रमाणित किया जाता है कि श्री Shri Binu Cherian,  
 जिनका जन्म 26/03/1973 को हुआ था, जो Thakkirickal House Chelad P.O., Kothamangalam, Ernakulam, ERNAKULAM, Kerala का निवासी है, कोच्ची द्वारा  
 तारीख को आयोजित शॉट फायरिंग की परीक्षा तारीख को उत्तीर्ण कर ली है और वह विस्फोटक अधिनियम, 1884 और उसके अधीन विहित नियमों के अधीन  
 रहते हुए खान अधिनियम, 1952 की परिधि के अधीन आनेवाले खानों से अन्यथा क्षेत्र में नीचे यथा उल्लिखित विस्फोटकों का उपयोग करके विस्फोट प्रदान करने  
 के लिए प्राधिकृत है।  
 This is to certify that Shri Shri Binu Cherian,  
 born on 26/03/1973, resident of Thakkirickal House Chelad P.O., Kothamangalam, Ernakulam, ERNAKULAM, Kerala passed the shotfirer's examination held  
 on conducted by Ernakulam and is authorised to conduct blasting operations as mentioned below using explosives in areas other than mines coming under the purview  
 of the Mines Act 1952, subject to the provisions of the Explosives Act, 1884 and the rules framed thereunder.

विस्फोट करने के प्राधिकृत वर्ग, प्रवर्ग और प्रकार :  
 वर्ग: (B), श्रेणी: सामान्य जमीन के ऊपर, जमीन के ऊपर ब्लास्टिंग आपरेशन

Authorised class, category and type of blasting :  
 Class : (B), Category : General aboveground, All phases of aboveground blasting operation

[ नियम 107 का उप-नियम (5) का स्पष्टीकरण देखें | See explanation of sub-rule (5) of rule 107 ]

यह प्रमाणपत्र 05/09/2016 (जारी करने की तारीख से पांच वर्ष) तक विधिमान्य होगा।  
 This certificate shall remain valid till 05/09/2016 (five years from the date of issue)

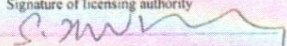
यह प्रमाण-पत्र अधिनियम या उसके अधीन विहित नियमों अथवा इस प्रमाण-पत्र की शर्तों का कोई अधिग्रहण करने पर या यदि आवेदक द्वारा आवेदन प्रारूप में  
 दी गई सूचना में कोई फर्क या विचलन होता है तो निलम्बित या अभिखण्डित कर दिया जाएगा।  
 This certificate is liable to be suspended or revoked for any violation of the Act or rules framed thereunder or the conditions of this certificate or if there is any  
 discrepancy or deviation in the information or suppression of facts furnished by the applicant in his application form.

Sd.-

स्थान | Place : परणाकुलम | Ernakulam  
 दिनांक | Date : 05/09/2011

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

पुनर्विधिमान्यकरण के लिए पृष्ठंकन  
 Endorsement for revalidation

पुनर्विधिमान्यकरण की तारीख Date of Revalidation	समाप्ति की तिथि Date of Expiry	अनुमति प्राधिकारी के हस्ताक्षर Signature of licensing authority
08/09/2016	05/09/2021	 Dy. Chief Controller of Explosives, Ernakulam कुले उप मुख्य विस्फोटक नियंत्रक For Deputy Chief Controller of Explosives परणाकुलम Ernakulam

कानूनी चेतावनी : विस्फोटकों को गलत ढंग से धराने 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 License - explosive



Annexure No. 4

	
ലൈസൻസ് നമ്പർ : എ4--814/2020-21 -- 222 <span style="float: right;">തീയതി : 29/04/2020</span>	
എടയൂർ ഗ്രാമപഞ്ചായത്തിലിന്നും 1994ലെ കേരള പഞ്ചായത്ത് രാജ് ആക്ട് (1994ലെ 13) 232, 233, 234, 254 എന്നീ വകുപ്പുകളും അതേ തുടർനൂതന ചട്ടങ്ങളും അനുസരിച്ച് ഫാക്ടറികൾ, വ്യാപാരങ്ങൾ, സംരംഭങ്ങൾ, മറ്റു സേവനങ്ങൾ എന്നിവയ്ക്കായി നൽകുന്ന <b>ലൈസൻസ്</b>	
ലൈസൻസിയുടെ പേരും മേൽവിലാസവും	ബിനുചെറിയാൻ, തക്കരിക്കൽ ഹൗസ്, ചേലാട്.പ്.ഒ, കോതമംഗലം
സ്ഥാപനത്തിന്റെ പേരും സ്ഥലനാമവും	കരിങ്കൽ ക്വാറി, മാവണ്ണിയൂർ
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	50HP ഉപയോഗിച്ച് കരിങ്കൽ ക്വാറി നടത്തുന്നതിന്
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡ് നമ്പരും	2) റി.നം. 101/6
ലൈസൻസ് കാലയളവ്	01-04-2020 മുതൽ 31-03-2021 വരെ
ഞ്ഞാടാക്കിയ ലൈസൻസ് ഫീസ്	5,000 + 500/- രൂപ
	തൊഴിൽക്കരം
രസീത് നമ്പർ 119130106769 തീയതി 04-02-2020	
Rt.No.120130100037 Dt : 29-04-2020	
ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരാക്ഷേപപത്രങ്ങളുടെ വിവരങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാരസ്ഥാനം)	1. സാനിറ്ററി സർട്ടിഫിക്കറ്റ് ... 175/19 ... 21-03-2020 2. മലിനീകരണനിയന്ത്രണ ബോർഡിൽനിന്നുള്ള അനുമതി ... PCB/CO/RI/EXP/1142/19 ... 22-03-2019 3. പ്ലാസ്റ്റിക് നിരോധനം, സ്ഥലനാമം എന്നിവ സംബന്ധിച്ച സത്യവാങ്മൂലം 4. സ്റ്റേറ്റ് എൻവയൺമെന്റ് ഇംപാക്ട് അസസ്മെന്റ് അതോറിറ്റിയുടെ അനുമതി



ABBAS K  
 Secretary  
 Edayur Grama Panchayath  
 Edayur (P.O.)  
 Malappuram Kerala India  
 Ph 9496047897

Copy of license from Gram Panchayat

## Annexure No. 5

## FORM M

(See sub - rule(2) of rule 9)  
(For all type of quarrying permits)

GOVERNMENT OF KERALA  
DEPARTMENT OF MINING & GEOLOGY DISTRICT OFFICE MALAPPURAM  
QUARRYING PERMIT FOR EXTRACTION OF GRANITE BUILDING UNDER RULES 3(1),9  
AND 10 OF THE KERALA MINOR MINERAL CONCESSION RULES, 2015  
and KMMC(2<sup>nd</sup> Amendment) Rules 2015

No. 21/2019-20/GR/DOM/M- 2794/2019

Dated. 16/10/2019

Shri. Binu Cherian, Thakkirikkal House, Chelad Post, Kothamagalam, Ernakulam is hereby permitted to extract and remove **Granite Building Stone** (Name of mineral) from an area of **99.58 Ares** in Sy.No. **101/6** of Edayur village of Tirur Taluk of Malappuram District, Kerala State under rule 3(1) and 9 of the Kerala Mineral Concession Rules, 2015 subject to the conditions mentioned in rule 10.

Quantity of extraction of mineral permitted : 30,000 MT  
(Not applicable in the case of CRP System) :

Whether the permit holder opted CRP System : No  
Number of mineral transit passes to be issued : 6000 Nos.  
Name and address of the owner of the land : Sri. Ulleerithodi Unneenkutty & Shanavas,  
Karayakkad Post, Malappuram

Under mineral concession/particulars of consent } : Consent letter attached  
NOC received from the occupier of the }  
land (if applicable ) }  
Date of expiry of permit : 15.10.2020 (Subject to the validity of  
other statutory licences)

## Details of fee remitted

Item	Chalan No.&Date	Amount	Name of Treasury
Application fee	KL006743020201920 M dtd.02.9.2019	1000/-	S.T.Manjeri
Royalty	KL008671847201920 M dtd.16.10.2019	7,20,000/-	do
Surface Rent	do	500/-	do
Addl.Royalty remitted,if any	-	-	-



To  
Sri. Unneen Kutty & Shanavas,  
Ulleerithodi House,  
Karayakkad Post, Malappuram

*Meghanna*  
16/10/19  
Senior Geologist  
GEOLOGIST  
DIST. Office Of Mining & Geology  
Mini Civil Station, Manjeri  
Malappuram District.

Copy to : (1) The District Collector, Malappuram (with C/L)  
(2) Secretary, Edayur Grama Panchayat

Scanned with CamScanner

Copy of Permit order

## Annexure No.6

**TEST REPORT**

Test Report No: 20200810/R105	Date: 14.08.2020	Page 1 of 1
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CUSTOMER DETAILS			
Customer Details	Name & Address	Mr.Binu Cherian Thakkirickal (H), Chelad, Kothamangalam, Ernakulam District.	
Location of Site	Monitoring Site	Quarry of Mr. Binu Cherian Karakkad, Edayoor, Malappuram District.	
	Survey No	101/5, 101/6	
	Village	Edayoor	
	Panchayath	Edayoor	
	Taluk	Thirur	
	District	Malappuram	
	State	Kerala	
Customer Reference	---		
SAMPLE DETAILS			
Source of Sample	Ambient Air	Sample Code	20200810/S105
Location of Monitoring	East Side Boundary	Sampled By	Laboratory
Date of Monitoring	10.08.2020	Test Started On	12.08.2020
Sample Received On	11.08.2020	Test Completed On	14.08.2020
Humidity	72 %	Sampling Procedure	IS 5182 Part V & XIV

SL NO	TEST PARAMETER	TEST METHOD	UNIT	RESULT	NAAQ STANDARD
01	Particulate Matter (PM <sub>10</sub> )	IS 5182 Part 23: 2006 RA 2017	µg/m <sup>3</sup>	45.6	100
02	Particulate Matter (PM <sub>2.5</sub> )	EPA 40 CFR Part 50 Appendix - L	µg/m <sup>3</sup>	21.8	60.0
03	Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 Part 2: 2001 RA 2017	µg/m <sup>3</sup>	< 2.00	80.0
04	Oxides of Nitrogen (NO <sub>2</sub> )	IS 5182 Part 6: 2006 RA 2017	µg/m <sup>3</sup>	< 2.00	80.0

\*\*\*End of Report\*\*\*

For and on behalf of  
Standard<sup>s</sup> Environmental & Analytical Laboratories

*Riya*  
Authorized Signatory  
**Riya Joseph**  
Technical Manager

**Standard<sup>s</sup> Environmental & Analytical Laboratories**

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

## Monitoring result of Air



## Annexure No.7

**TEST REPORT**

Test Report No: 20200810/R106	Date: 14.08.2020	Page 1 of 1
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CUSTOMER DETAILS		
Customer Details	Name & Address	Mr.Binu Cherian Thakkirickal (H), Chelad, Kothamangalam, Ernakulam District.
Location of Site	Monitoring Site	Quarry of Mr. Binu Cherian Karakkad, Edayoor, Malappuram District.
	Survey No	101/5, 101/6
	Village	Edayoor
	Panchayath	Edayoor
	Taluk	Thirur
	District	Malappuram
	State	Kerala
Customer Reference	---	
SAMPLE DETAILS		
Source of Sample	Ambient Sound Level	
Sample Code	20200810/S106	
Location of Monitoring	East side Boundary	
Date of Monitoring	10.08.2020	
Method	IS 9989:1981 RA:2008	

DAYTIME	RESULT	NIGHTTIME	RESULT
06.00 Hrs	37.4 dB (A)	23.00 Hrs	33.8 dB (A)
07.00 Hrs	40.1 dB (A)	00.00 Hrs	36.2 dB (A)
08.00 Hrs	44.4 dB (A)	01.00 Hrs	36.9 dB (A)
09.00 Hrs	47.9 dB (A)	02.00 Hrs	36.5 dB (A)
10.00 Hrs	50.2 dB (A)	03.00 Hrs	37.2 dB (A)
11.00 Hrs	53.3 dB (A)	04.00 Hrs	36.2 dB (A)
12.00 Hrs	50.6 dB (A)	05.00 Hrs	37.9 dB (A)
13.00 Hrs	49.8 dB (A)	RESULTS	
14.00 Hrs	50.2 dB (A)		
15.00 Hrs	50.6 dB (A)	Ambient Sound Level (Leq) Daytime	48.7 dB (A)
16.00 Hrs	51.7 dB (A)		
17.00 Hrs	52.1 dB (A)		
18.00 Hrs	46.7 dB (A)		
19.00 Hrs	43.2 dB (A)	Ambient Sound Level (Leq) Nighttime	36.5 dB (A)
20.00 Hrs	39.4 dB (A)		
21.00 Hrs	38.9 dB (A)		
22.00 Hrs	36.3 dB (A)		

\*\*\*End of Report\*\*\*

For and on behalf of  
Standard<sup>s</sup> Environmental & Analytical Laboratories

*Dya*  
Authorized Signatory  
**Rija Joseph**  
Technical Manager

**Standard<sup>s</sup> Environmental & Analytical Laboratories**

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

Copy of result of Water

## Annexure No.8

**TEST REPORT**

Test Report No: 20200810/R107	Date: 14.08.2020	Page 1 of 1
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CUSTOMER DETAILS			
Customer Details	Name & Address	Mr.Binu Cherian Thakkirickal (H), Chelad, Kothamangalam,Ernakulam District.	
Location of Site	Monitoring Site	Quarry of Mr. Binu Cherian Karakkad, Edayoor, Malappuram District.	
	Survey No	101/5, 101/6	
	Village	Edayoor	
	Panchayath	Edayoor	
	Taluk	Thirur	
	District	Malappuram	
	State	Kerala	
Customer Reference	---		
SAMPLE DETAILS			
Sample Code	20200810/S107	Sample Received On	11.08.2020
Sample Name	Water	Sampling Procedure	---
Sample Description	Open Well	Sampling Location	Adjoint plot on West direction
Identification By Customer	---	Sample Condition	Good
Sampled On	---	Test Started On	12.08.2020
Sampled By	Customer	Test Completed On	14.08.2020

SL NO	TEST PARAMETER	TEST METHOD	UNITS	RESULT	ACCEPTABLE LIMIT (IS 10500 – 2012)
01	Colour	IS 3025 Part 4:1983 RA 2017	Hazen	1.00	5.0 (Max)
02	Odour	IS 3025 Part 5:1983 RA 2017	---	Unobjectionable	Unobjectionable
03	Turbidity	IS 3025 Part 10:1984 RA 2017	NTU	0.30	1.0 (Max)
04	pH	IS 3025 Part 11:1983 RA 2017	---	6.95	6.5 – 8.5
05	Conductivity	IS 3025 Part 14:1984 RA 2013	µS/cm	185	---
06	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2017	mg/L	120	500 (Max)
07	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 Part 21:2009 RA 2014	mg/L	66.7	200 (Max)
08	Calcium (as Ca)	IS 3025 Part 40:1991 RA 2014	mg/L	15.4	75.0 (Max)
09	Magnesium (as Mg)	IS 3025 Part 46:1994 RA 2014	mg/L	6.89	30.0 (Max)
10	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2014	mg/L	11.9	250 (Max)
11	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 Part 23:1986 RA 2014	mg/L	49.7	200 (Max)
12	Iron (as Fe)	IS 3025 Part 53:2003 RA 2014	mg/L	0.19	1.00 (Max)
13	Sulphate (SO <sub>4</sub> )	IS 3025 Part 24:1986 RA 2014	mg/L	1.30	200 (Max)
14	Total Coliform Bacteria	IS 15185 : 2016	---	Absent/100 ml	Absent
15	E coli	IS 15185 : 2016	---	Absent/100 ml	Absent

\*\*\*End of Report\*\*\*

For and on behalf of  
Standard's Environmental & Analytical Laboratories

**Rija Joseph**  
Technical Manager

*Rija*  
Authorized Signatory

**Standard's Environmental & Analytical Laboratories**

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

Monitoring results of Sound