

COMPLIANCE REPORT

APRIL 2020 – SEPTEMBER 2020

Quarry project of Binu Cheriyan

Malappuram District

Kerala



Dt. 08-10-2020

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,
4th Floor, E & F Wing, Kendriya Sadan,
Koramangala, Bangalore - 560034

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

Subj :- Environment Clearance – Quarry project at Village & Panchayat
Edayur, Thirur Taluk, Malappuram District, Kerala– Compliance Report –
firsthalf – 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** (April 2020 - September 2020) 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 First half to the specific conditions and general conditions of the Environmental Clearance order for the period of **April 2020 – September 2020** is being submitted.

COMPLIANCE REPORT

(GENERAL CONDITIONS)

GENERAL CONDITIONS

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

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

The Environmental Monitoring Cell (EMC) has formed with Mr. Judy James as head of the monitoring cell. The EMC meeting convenes regularly to evaluate and monitor quarrying work in connection with the specific and general conditions stipulated in the Environmental Clearance (EC) order. The details of the monitoring cell are given below:

TABLE No. 1 - ENVIRONMENTAL MONITORING CELL (EMC)

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

3	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.	Being complied
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Compliance

To enrich vegetation and prevent air pollution, the project proponent planted suitable 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. 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	Meliaceae	Tree
3.	<i>Bambusa bambos</i>	Mula	Poaceae	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

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

To reduce the consumption of electricity from the conventional sources, the project proponent Installed solar street lights to use maximum renewable energy to reduce electrical consumption from KSEB. As part of this, the project proponent could reduce the use of energy from conventional sources.

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

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

As part of eco restoration, the project proponent started to plant various saplings within the project area. The list of tree/shrub/herb saplings planted in the project site is given below in **table No. 3**. The mine closure plan will be done at own cost of project proponent as agreed in the proposal.

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	Moraceae	Tree
4	<i>Capsicum frutescens</i>	Kantharimulaku	Solanaceae	Herb
5	<i>Carica papaya</i>	Papaya	Caricaceae	Tree
6	<i>Cocos nucifera</i>	Thengu	Arecaceae	Tree
7	<i>Curcuma longa</i>	Manjal	Zingiberaceae	Herb
8	<i>Mangifera indica</i>	Mavu	Anacardiaceae	Tree
9	<i>Musa paradisiaca</i>	Vazha	Musaceae	Herb
10	<i>Swietenia mahagoni</i>	Mahagony	Meliaceae	Tree
11	<i>Tectona grandis</i>	Thekku	Verbenaceae	Tree

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.	Will be complied
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Compliance:

The project proponent is intending to 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 project proponent will plant indigenous plant species that are eco – friendly on the reclaimed area.

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

The activities under Corporate Social Responsibility (CSR)/ Corporate Environmental Responsibility (CER) activities are executed in the sectors of Health and education. The details are given below. The CSR/CER receipts are attached as

Annexure No. 9**TABLE 4 - Details of the CSR/CER amount spent**

Sectors	Activities	Beneficiaries	Amount spent in Rs.
Health	Medical Aid	Covid relief fund	18000
Drinking water supply	Donation	Water supply	10,000
Social	Donation	CMDRF	1,00,000
	Donation	Environmental cooperative society	2000
TOTAL			1,30,000

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

To demarcate the boundary and to ensure safety, the project proponent has erected barbed metal wire fencing around the mining area with height of 5 ft. This will help to prevent falling of animals/human being/dumping of garbage etc.

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

As per the stipulation of Explosive department, to give warning to the labours and community people prior to the blasting in quarry, the project proponent installed warning alarms in the quarry site. This is properly working prior to the blasting time.

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.	Complied
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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.

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

The blasting is done in controlled manner by using ordinary delayed detonators. All blasting activities are carrying out with the specified regulations of explosive department. All blasting are under careful supervision of qualified persons.

14	A licensed person should supervise/control the blasting operations.	complied
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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	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 reduce emission of dust through the vehicle movement, the access road from the entrance of project site to quarry has tarred 250 meter and maintaining in good manner. The project proponent splashes water on the road to arrest the dust production during summer season. The project proponent is intending to maintain access road to the quarry in good condition for dust emission and easiness of transportation of vehicles.

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

There is no old quarry in the site for restoration. The overburden materials are stored within the site. This will be used to restore the exploited area in future.

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

To enhance safety and to make environment friendly quarrying, the excavation activity in the project proponent is progressing by creating benches of 5m width x 5m height.

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

The project proponent is yet to use mats during the time of blasting. The project is using ordinary delayed detonator for blasting therefore there is no issue with fly rock in the community and the project is also assure the maximum PPV is under 10.

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

Mining depth will not exceed beyond 10 meter or not below the level of the nearest stream bed, whichever is less.

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

In the project site, there is no area with a slope greater than 45°. Therefore it is not necessary to explore from the slopes 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 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	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:

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

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

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

The project proponent planted various saplings in the project area as a compensation of loss of trees while the project is clearing the land for mining as part of concurrent eco restoration. The project proponent is planning to plant more tree saplings in the project site.

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

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

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

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

28	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.	Complied
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Compliance:

The norms of Kerala State Pollution Control Board regarding the distance criteria of residences, roads, rivers and worship places is adhered by the project. The distance of the nearest house was 129 meter form the quarry, the KSPCB condition is 100 meter.

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

There is no forest area near 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 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
Environmental Clearance order	State Environmental Impact Assessment Authority, Kerala	839/SEIAA/EC1/2717/2015 Dated 05-02-2016
“Consent to Operate”	Kerala State Pollution Control Board	PCB/CVO/R1/EXP/1142/19 22-03-2019
Explosive License	Ministry of Commerce & Industry – Petroleum & Explosives Safety Organization (PESO)	E/SC/KL/22/779(E636254) Dated 22-02-2017
License for quarry operations	Gram Panchayath	A4-814/2020-21-..222 dated 29-04-2020
Permit order	Directorate of Mining and Geology	21/2019-20/GR/DOM/M-2784/2019 Dated 16-10-2019

32	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority	Will be complied
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Compliance:

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

33	The Authority reserves the right to add additional safe guard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Noted
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Compliance:

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

34	The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, The Environment (Protection) Act, 1986, the public liability (Insurance) Act, 1991 and EIA notification, 2006.	Being 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

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**

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 . <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>	Complied
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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.

36	A copy of the clearance letter shall be sent by the proponent to concerned Grama/District Panchayath / Municipality / Corporation / Urban Local Body and also to the Local NGO, if any from whom suggestions / representations, if any were received while processing the proposal. The Environmental Clearance shall also be put on the website of the company by the proponent.	Complied
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Compliance:

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.	Complied
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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	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.	complied
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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	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	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.	Noted
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Compliance:

The project proponent will give 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/R1/EXP/1142/19

Ref : 1.PCB/CO/R1/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.

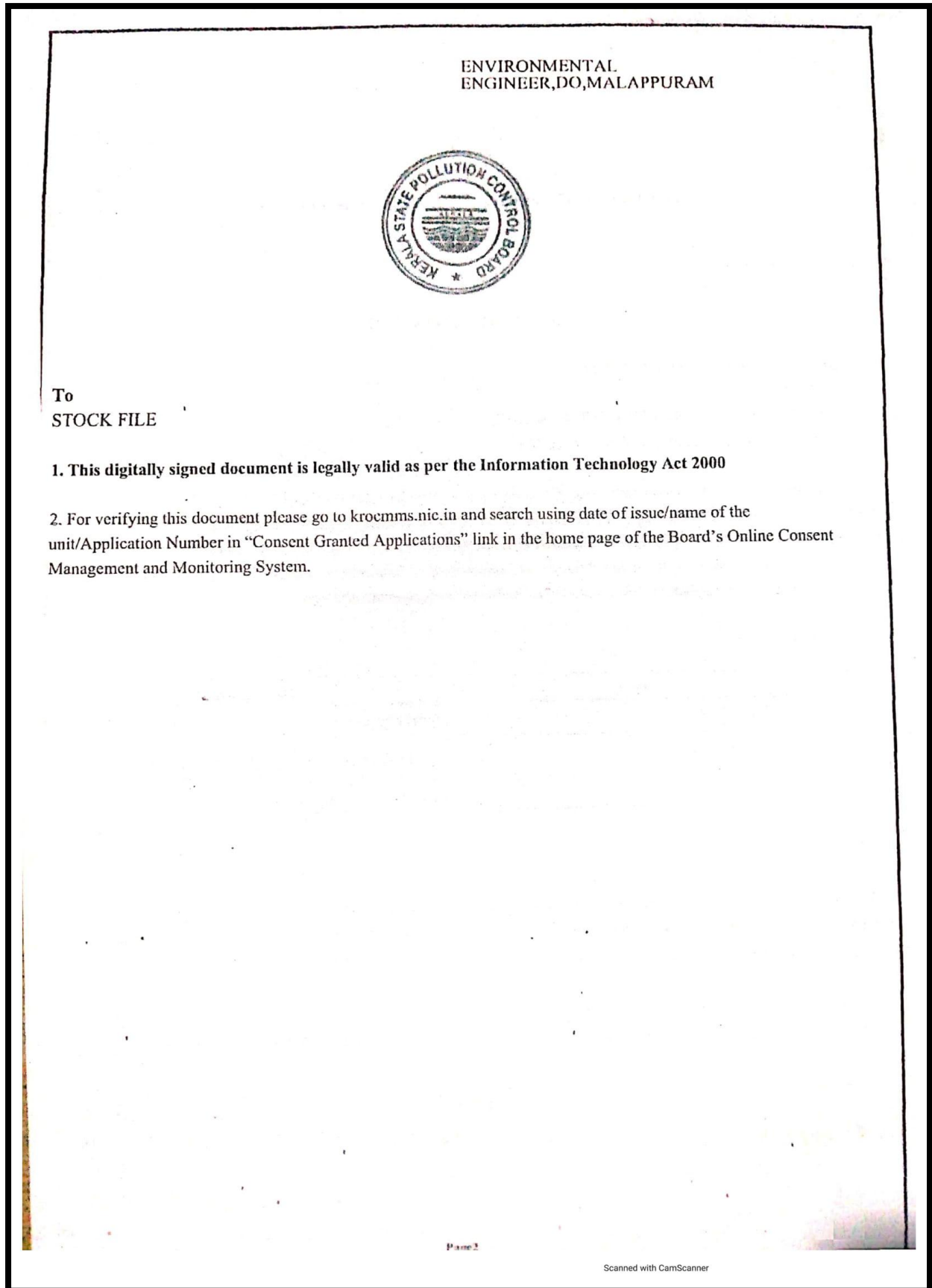
DATE :22/03/2019

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

SIGNATURE & SEAL OF ISSUING AUTHORITY

Page 1


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Copy of Consent from PCB

Annexure No. 2

Validity expires on 04-02-2021



सत्यमेव जयते

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

*Present : Prof. (Dr.) K.P. Joy, Chairman; Dr. J. Subhashini, Member and Sri. 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 Cherian, Thakkirickal House, Chelad P.O., Kothamangalam, Ernakulam District-686681-Granted- Orders issued.

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY


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

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

Environmental Clearance No. 11/2016.

Sri.Binu Cherian, 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 एल.ई.-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(E/64051)

प्रमाणित किया जाता है कि श्री Shri Binu Cheriyan,
 जिनका जन्म 26/03/1973 को हुआ था, जो Thakkirickal House Chelad P.O., Kothamangalam, Ernakulam, ERNAKULAM, Kerala का निवासी है, को छोटी ध्वारा
 तारीख को आयोजित शॉट फायर 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 करने का अधिकार प्राप्त करने
 के लिए प्राधिकृत है।
 This is to certify that Shri Shri Binu Cheriyan,
 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: (ख), श्रेणी: सामान्य जमीन के ऊपर, जमीन के ऊपर ब्लास्टिंग ऑपरेशन

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 विधिमाम्य 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.

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

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

पुनर्विधिमाम्यकरण के लिए पृष्ठानक
 Endorsement for revalidation

पुनर्विधिमाम्यकरण 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 कृते उप मुख्य विस्फोटक नियंत्रक For Deputy Chief Controller of Explosives एरनाकुलम 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 തീയതി : 29/04/2020

എടയൂർ ഗ്രാമപഞ്ചായത്തിൽനിന്നും
1994ലെ കേരള പഞ്ചായത്ത് രാജ് ആക്ട് (1994ലെ 13) 232, 233, 234, 254 എന്നീ വകുപ്പുകളും
അതേ തുടർന്നുള്ള ചട്ടങ്ങളും അനുസരിച്ച്
ഫാക്ടറികൾ, വ്യാപാരങ്ങൾ, സംരംഭങ്ങൾ, മറ്റു സേവനങ്ങൾ എന്നിവയ്ക്കായി നൽകുന്ന

ലൈസൻസ്

ലൈസൻസിനുള്ള 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	29 റി.നം. 101/6		
ലൈസൻസ് കാലയളവ്	01-04-2020 മുതൽ 31-03-2021 വരെ		
ഈടാക്കിയ ലൈസൻസ് ഫീസ്	5,000 + 500/- രൂപ	രസീത് നമ്പർ	119130106769 തീയതി 04-02-2020
	തൊഴിൽക്കരം	1250 + 1250	Rt.No.120130100037 Dt : 29-04-2020
ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരാകരണപത്രങ്ങളുടെ 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 എൻവയൺമെന്റൽ ഇംപാക്ട് അസസ്മെന്റ് അതോറിറ്റിയുടെ അനുമതി		



(ഹെഡ്സ് മുദ്ര)



സെക്രട്ടറി
എടയൂർ ഗ്രാമപഞ്ചായത്ത്
Edappur P.O., Edappur
Malappuram Kerala India
Ph 9496047897

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Copy of license from Gram Panchayat

Annexure No. 5

FORM M

(See sub – rule(2) or 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(2nd 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

Megharaj
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

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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 ₁₀)	IS 5182 Part 23: 2006 RA 2017	µg/m ³	45.6	100
02	Particulate Matter (PM _{2.5})	EPA 40 CFR Part 50 Appendix – L	µg/m ³	21.8	60.0
03	Sulphur Dioxide (SO ₂)	IS 5182 Part 2: 2001 RA 2017	µg/m ³	< 2.00	80.0
04	Oxides of Nitrogen (NO ₂)	IS 5182 Part 6: 2006 RA 2017	µg/m ³	< 2.00	80.0

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories

Riya
Authorized Signatory
Riya Joseph
Technical Manager

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: 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
StandardS Environmental & Analytical Laboratories

Rija
Authorized Signatory
Rija Joseph
Technical Manager

StandardS 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.	
	Monitoring Site	Quarry of Mr. Binu Cherian Karakkad, Edayoor, Malappuram District.	
Location of Site	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 ₃)	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 ₃)	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 ₄)	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

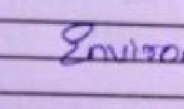
For and on behalf of
Standard^s Environmental & Analytical Laboratories**Rija Joseph**
Technical Manager
Authorized Signatory**Standard^s Environmental & Analytical Laboratories**Accreditation and Approval: NABL as per ISO 17025: 2017 & "A" Grade Laboratory of KSPCB
K.J. Tower, Pathalam, Udyogamandal 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

Annexure No.9



[illegible]

CHEQUE / CASH VOUCHER		Date: 11/6/2020	
DEBIT	Environmental co-operative Society.	Rs.	Ps.
		2000	
Paid to		Total	2000/-
R.s. (in words): Two thousand rupees only			
Narration			
Prepared by	Approved	Payment Received	
			

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