

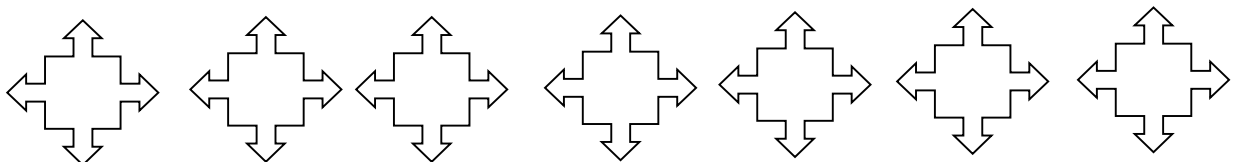
# **COMPLIANCE REPORT**

**October 2024 – March 2025**

**Quarry project of Eldho kuruvila**

**Ernakulam District**

**Kerala**



**Eldho Kuruvilla**  
THOMBAYIL  
Chelad P.O., Kothamangalam  
Ernakulam Dist.  
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Tel : Res : 0484 - 2207173  
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Date .....

Date. 21-05-2025

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

**Sub.- Environmental Clearance – Quarry project at Re Survey Nos.  
284/1,279/2pt and others at Mazhuvanoor Village, Ernakulam  
District, Kerala– Compliance report – Second half reg.**

**Ref.1. File No. 1446/EC3/2019/SEIAAA**  
**Ref.2. EC Identification No. EC23B001KL188975 dt. 15-03-2023**  
**Ref.3. Proposal No. SIA/KL/MIN/74360/2019**

Respected Sir,

The Quarry (Building stone) project was accorded Environmental Clearance for 2.3337 ha. by **EC Identification No. EC23B001KL188975 dt. 15-03-2023** by State Environmental Impact Assessment Authority, Kerala. The half yearly compliance report for the period of **October 2024 – March 2025** to the specific and general conditions of the Environment Clearance order is enclosed. The mining lease for an area of 2.3337 ha was executed on 08-04-2024.

Thanking you.  
Yours respectfully,

**For Quarry of Eldho Kuruvilla**

Eldho Kuruvilla

  
**Eldho Kuruvilla**  
**Proprietor**

Copy to:-  
The Member Secretary  
State Environment Impact Assessment Authority (SEIAA),  
Thiruvananthapuram, Kerala.

**COMPLIANCE REPORT**

**TO**

**THE CONDITIONS**

**OF**

**ENVIRONMENTAL CLEARANCE ORDER**

**No: 1446/EC3/2019/SEIAAA**

**EC identification number – EC23B001KL188975**

**Dated: 15-03-2023**

*BY*

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

**FOR**

**BUILDING STONE QUARRY**

**(MINOR MINERAL MINING) PROJECT**

*AT*

**Survey No. 284/1, 279/2-2pt, 279/2pt, 284/2 and others Mazhuvannoor  
Village, Kunnathunadu Taluk, Ernakulam District, Kerala**

*BY*

**QUARRY PROJECT OF ELDHO KURUVILA**

**ERNAKULAM DISTRICT**

**KERALA**

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## INTRODUCTION

The quarry project of Quarry project of **Eldho Kuruvila** at Survey No. 284/1, 279/2-2pt, 279/2pt, 284/2, 284/2-1pt, 284/2-4pt, 284/2-5 & 284/1-1pt Mazhuvanoor Village, Kunnathunad Taluk, Ernakulam District, Kerala

The quarry project was accorded with the Environmental Clearance (EC) by State Environmental Impact Assessment Authority on **15-03-2023**. As part of general condition No.48 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 **October 2024 – March 2025** is being submitted. The quarry project started its mining operation in 17-05-2024. The Validity of EC starts from the date on which lease is executed with Department of Mining and Geology. The mining lease was executed in 08-04-2024.

# **COMPLIANCE REPORT**

## **(SPECIFIC CONDITIONS)**

**PART - A – SPECIFIC CONDITIONS**

<b>01</b>	The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.	<b>Complied</b>
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The Project Proponent is being carried out quarrying as per the approved Mining Plan and the Specific Conditions stipulated in the EC issued by SEIAA, Kerala. The Project Proponent strictly follows the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.

<b>02</b>	The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease order should be provided to the SELAA before commencing the mining activity.	<b>Complied</b>
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The mining lease was executed on 08-04-2024. The copy of the mining lease was submitted to SEIAA before commencing the mining activity. The copy of proceeding of mining lease and lease deed executed is attached as Annexure.

<b>03</b>	The EC issued will be subject to a review by SEAC after 5 years through field verification to ensure that mining is carried out sustainably as per the EC conditions.	<b>Noted</b>
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The project proponent is extracting minerals in tune with the conditions stipulated in EC. This is being monitored by Environment Monitoring Cell. The PP is aware about EC will be reviewed by SEAC after 5 years.

<b>04</b>	Buffer zone should be demarcated and green belt should be developed by planting trees, herbs and climbers of local species.	<b>Complied</b>
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The PP has demarcated the buffer zone and started to plant various saplings as part of developing green belt around the mine lease area.

<b>05</b>	Compensatory afforestation plan should be implemented from the 1st year itself and the geo coordinates and geotagged photographs of the area shall be submitted in HYCR.	<b>Complied</b>
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The PP has started compensatory afforestation in the project site as part of compensating the trees removed from mine lease area for mining activity. The Geotagged photograph of the saplings planted in the project site is attached as **Plate No. 1**.

<b>06</b>	Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.	<b>Complied</b>
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The PP has developed Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain in the project area prior to the commencement of mining.

<b>07</b>	Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half yearly compliance report (HYCR)	<b>Complied</b>
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The Garland drain, silt-traps, siltation ponds and outflow channel desilted periodically and geo-tagged photographs of the process will be included in the half yearly compliance report (HYCR). The Geotagged photograph of the drain and Siltation pond is attached as **Plate No. 2**.

<b>08</b>	The impact of vibration due to blasting on the houses and built structures within 200m should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.	<b>Complied</b>
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The impact of vibration due to blasting on the houses and built structures within 200m is being monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report. The report of vibration of monitoring is attached as **Annexure . A**

<b>09</b>	CER plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.	<b>Noted</b>
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The PP has started to implement various CER activities in the community. The committed activities at SEIAA will be implemented within first two years of EC validity

<b>10</b>	Transportation of mined material should not be done during peak 8.00am to 10.00am) and afternoon (3.30pm to 5 pm)	<b>Complied</b>
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The transportation of mined materials is not done during peak 8.00am to 10.00am) and afternoon (3.30pm to 5 pm).

<b>11</b>	The haulage road should be widened and developed prior to the commencement of mining and it should be maintained well and dust -free with sprinkling arrangement.	<b>Complied</b>
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The PP has widened and developed the haulage road prior to the commencement of mining and the road is maintained for hassle free transportation. Stationary sprinklers are installed along the road side.

<b>12</b>	Adequate sanitation, waste management and rest room facilities should be provided to the workers	<b>Complied</b>
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As part of facilities for the labours, the PP has constructed adequate sanitary toilet block, waste management and rest rooms in the project site.

<b>13</b>	Adequate energy conservation measures should be implemented including solar power installations for street light and office.	<b>Complied</b>
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The PP is in discussion with the Solar panel distributors to install solar panels as part of energy conservation in project site.

<b>14</b>	The mitigation measures recommended in the EIA study for air environment, noise and vibration, water environment, land environment, ecological environment, socio- economic environment should be strictly adopted.	<b>Complied</b>
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The mitigation measures recommended in the EIA study for air environment, noise and vibration, water environment, land environment, ecological environment, socio- economic environment is being implemented. These activities helps to reduce the pollution levels in various aspects of environment.

<b>14</b>	Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).	<b>Complied</b>
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The PP has regulated traffic from and to the mine lease area. The transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).

<b>15</b>	Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.	<b>Complied</b>
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The PP has constituted Environment Management Cell (EMC) and include one subject expert in environment management. The meeting of the cell convenes regularly. The copy of EMC meeting minutes is attached as Annexure.

<b>16</b>	Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.	<b>Complied</b>
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The PP has been using blasting mat in the project site during blasting time to prevent flyrock from the mining area.

<b>17</b>	The commitments made by the project proponent during public hearing and in EIA/EMP should be addressed and implemented, and submit the report along with the Half Yearly Compliance Report.	<b>Complied</b>
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The commitments made by the project proponent during public hearing was included in the EIA report and these are being implemented.

<b>18</b>	As per OM no F.No.22-65/2017-1A.III dated 30 September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER activities shall be 2% of the project cost.	<b>Complied</b>
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The PP has allocated 2% of the project cost for implementing CER activities in the community. The activities identified will be executed in consultation with Local Self Government. A copy of EMP/CER is submitted at Grama Panchayat. The committed CER activities at SEIAA will be implemented.

<b>19</b>	In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife.	<b>Complied</b>
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The Project proponent is using NONEL technology for blasting to reduce noise and vibration during blasting in the mining area. To conduct the blasting activity in the mine lease area, the PP has appointed a qualified person.

<b>20</b>	As per the directions contained in the OM F.No.22-34/2018-14.III dated 16 January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.	<b>Noted</b>
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The PP will undertake regressing / eco restoration in the mined out area and disturbed area due to the mining activity.

<b>21</b>	The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986	<b>Complied</b>
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The PP is being implemented all conditions stipulated in the EC

**COMPLIANCE REPORT**

**(GENERAL CONDITIONS)**

**PART B**

**PART – B – GENERAL CONDITIONS**

<b>01</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>Complied</b>
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An assurance in the form of affidavit was already submitted to SEIAA Kerala, stating that that all the conditions stipulated in the EC shall be scrupulously followed.

<b>02</b>	All the statutory clearances should be obtained, as applicable, by the project proponent from the respective competent authorities including that for blasting and storage of explosives. Copies of all statutory clearances shall be submitted along with First Half Yearly Compliance Report.	<b>Complied</b>
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The PP has obtained Environmental Clearance, consent for operate from pollution control board, Explosive license, Panchayat License, lease order and agreement. The copies of the same is attached as **Annexure No 1 & 6**.

<b>03</b>	The project proponent should advertise in newspapers that the project has been accorded. Environmental Clearance and copies of clearance letters are available in the Office of State Environment Impact Assessment Authority (SEIAA) and on the website of the Authority at <a href="http://www.selaakerala.in">www.selaakerala.in</a> . The advertisement should be in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language. The advertisement should be made within 10 days from the date of receipt of the Environmental Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.	<b>Complied</b>
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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. The copy of the advertisement given in two local newspapers is provided at **Annexure No.7.**

<b>04</b>	The proponent shall send a copy of the EC to concerned Grama Panchayat District Panchayat 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 uploaded on the website of the company.	<b>Complied</b>
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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. The EC order uploaded in the website of the company.

<b>05</b>	The lease area shall be fenced with barbed wire to a minimum height of 4ft around, before starting mining. All the boundary indicators (boards, markings, etc) shall be conspicuous and maintained at all times.	<b>Complied</b>
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As part of demarcation of mine lease area, the project proponent has erected barbed metal wire fencing around the mining area with height of 4 ft. This can prevent falling of animals/human being/dumping of garbage etc. in to the mine lease area.

<b>06</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 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.	<b>Complied</b>
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The details of the Environmental Clearance are displayed in the project site. The project proponent has placed the metallic board as specified in the conditions of Environmental Clearance order. The photograph of the same is attached as **Plate No.3.**

07	Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department. Mats to reduce fly rock blasts to a maximum of 10 PPV should be provided	<b>Complied</b>
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As part of guidelines of competent authority and safety concern, the explosives are stored in magazine. The magazine is in an isolated place specified and approved by the explosives department.

08	Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged stipulated by Explosive Department.	<b>Complied</b>
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As per the stipulation of Explosive department, the project proponent has installed warning alarms in the quarry site. This is working properly before and after the blast.

09	Access roads to the quarry shall be black topped to contain dust emissions that may arise during transportation of materials. The transportation of minerals should be done in covered trucks to contain dust emissions.	<b>complied</b>
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To reduce emission of dust through the vehicle movement, the access road from the entrance of project site to quarry was tarred. The project proponent splashing approach road and haulage road to arrest the dust during summer season.

10	A separate Environmental Management Cell (EMC) with suitable qualified personnel should be set-up under the chairmanship of a	<b>Complied</b>
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	Senior Executive, who will report directly to the Head of the Organization. The Cell should have representative of Biodiversity Management Committee of the Panchayath and a representative of NGO, if any active in the area. The EMC should meet at least once in six months and review the activities and minutes should be a part of the compliance report.	
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To monitor all conditions stipulated in the Environment Clearance and environment Management Plan, the project proponent has constituted an Environment Monitoring Cell. This cell concurrently monitors and evaluate the safeguard measures implemented in the project site. The minutes of the same is attached as **Annexure No.8**

<b>11</b>	Quarrying has to be carried out as per approved mining plan with the suggestions from SEAC incorporated and following KMMC Rules 2015 and the Amendments thereby.	<b>Complied</b>
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The project proponent is following approved mining plan with the suggestion from SEAC for the extraction of building stones.

<b>12</b>	The quarrying operation shall be restricted between 7 AM and 5 PM	<b>complied</b>
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The extraction of minerals and operations of quarry is restricted between 7 AM and 5 PM.

<b>13</b>	Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.	<b>complied</b>
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To conserve the rain water, the project proponent has collected storm water in a pond located in the lowest area. The stored rain water is using for irrigation purposes, watering of plants, wetting of roads.

<b>14</b>	Maximum depth of mining shall be as per the mining plan and as per specific direction of SEAC after field inspection. The maximum depth of mining should not be deeper than the local ground water table. No mining operations should be carried out at places having a slope greater than 45°.	<b>Noted for compliance</b>
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The depth of mining will not exceed beyond 10 meters from general ground level. The exploration will be as per the plan submitted before State Environment Impact Assessment Authority (SEIAA), Kerala. There will be no mining operations at places having a slope greater than 45°.

<b>15</b>	The height of any bench shall not exceed five meters and breadth shall not be less than the height	<b>Complied</b>
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As part of safety and eco friendly mining, the quarrying activity in the project is progressing by creating benches of 5m width and 5m height. The mining has started its operation from 25<sup>th</sup> of September 2024. The photograph of the benches is attached as plate. The copy of the benches being created in the mine lease area is attached as **Plate No. 4.**

<b>16</b>	The Project proponent shall ensure that no perennial or intermittent natural water course and/or water resources are 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.	<b>Complied</b>
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The project proponent ensured that no natural runoff of storm water obstructed due to any mining operations. No stream is originating from the lease area. There is no such natural water course or thodu is flowing along the project site.

<b>17</b>	A minimum buffer distance specified as per existing rules and statutory orders shall be maintained from the boundary of the quarry to the nearest dwelling unit or other structures, and from forest boundaries or any other ecologically sensitive and archeologically important areas or the specific distance specified by SEIAA in EC as per the recommendations of SEAC depending on specific local conditions.	<b>Complied</b>
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The norms of Kerala State Pollution Control Board regarding the distance criteria of residences, roads, rivers and worship places are adhered by the project.

<b>18</b>	The proponent should plant seedlings at least 5 times of the loss of trees that has occurred while clearing the land for the project and follow planting measures as suggested by SEAC. Suitable avenue trees should be planted along the sides of the approach road and internal roads and open parking areas, if any, Preference should be given to endemic native and fruit bearing species. Planting in buffer areas should be taken up beforehand. Proper upkeep and maintenance of planted seedlings shall be ensured by the project proponent	<b>Being complied</b>
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The project proponent has planted various saplings in the project area as a compensation of loss of trees while the project is clearing the land for mining. The project proponent is intending to plant more number of native saplings in the project site. The photograph of the compensatory afforestation is attached as plate. The bill against purchase of bill is attached as **Annexure No. 9**

<b>19</b>	The proponent should ensure that the vegetation in the buffer is retained, maintained and strengthened with additions of native broad leaved plants.	<b>complied</b>
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The PP does not cut the trees located at buffer and additional tree saplings are being planted in the buffer zone.

<b>20</b>	Eco-restoration including the closure of mine as per the progressive closure plan and final closure plan shall be done at the cost of the project proponent. This eco-restoration should follow scientific standards available for restoration, full recovery of the original vegetation and improving the resilience of different ecosystems. Overburden materials should be managed within the site and used for reclamation of mined pit as per mine closure plan/specific conditions.	<b>Noted for compliance</b>
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The eco restoration plan prepared by the project proponent will be executed in a good manner. The project proponent will plant various saplings in and around the project site. The mine closure plan will be done at the own cost of project proponent as agreed in the proposal. OB will be used within the site of project proponent.

<b>21</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 suitable indigenous plant species, if no other specific condition on reclamation of pit is stipulated in the EC Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.	<b>Will be complied</b>
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The project proponent will retain at least 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 will plant indigenous plant species that are eco – friendly on the reclaimed area.

<b>22</b>	Control measures on noise and vibration prescribed by KSPCB	
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	should be implemented. Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.	<b>complied</b>
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The major noise generating source from the mining activity are working machinery, drilling, blasting and plying of vehicles. The following control measures has undertaken to bringing down the noise levels:-

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

<b>23</b>	Periodical monitoring of the vibration at specified location (preferably at a distance of 50 m and 100 my to be conducted and records kept for inspection. This could also form a part of the compliance reports	<b>Will be complied</b>
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Vibration will be monitored periodically. A proper log book will be kept for inspection.

<b>24</b>	Speed of trucks entering or leaving the mine site is to be limited to moderate speed of 25 kmph to prevent undue noise from empty trucks.	<b>complied</b>
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Speed of the trucks is limited to 25 Kmph to reduce the noise generated from transportation.

<b>25</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	<b>Noted</b>
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	prescribed standard limit indicated by CPCB/KSPCB.	
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Crusher is not proposed in the project site. Green belt is being developed around the mine lease area.

<b>26</b>	Blasting should be done in a controlled manner using NONEL technique as specified by the regulations of Petroleum and explosive safety organization (GOI) or any other concerned authorized agency. A licensed person should supervise control the blasting operations.	<b>Complied</b>
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The blasting is the crucial part of quarrying industry to explore the minor minerals. The blasting is done in controlled manner by using NONEL. All blasting activities are carrying out with the specified regulations of explosive department. Blasting and quarrying activities is under the supervision of qualified persons. The certificates of qualified personals appointed in the mining site is attached as **Annexure No. 10, 10A and 10B**

<b>27</b>	Measures should be taken for maintaining noise levels below 85 dBA in the work environment.	<b>complied</b>
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The main noise generating activities in the mining industries are the playing of jack hammer, breaker, vehicles and blasting operations. The project proponent has taken appropriate action to reduce the sound by employing possible measures like planting of floral species , green belt development, etc..

<b>28</b>	Project proponent should obtain necessary prior permission of the competent authorities for drawing requisite quantity of surface water and ground water for the project.	<b>Noted</b>
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At present, the need of prior approval is not necessary to draw ground water and surface water for the project.

29	Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly compliance reports to SEIAA.	<b>Noted</b>
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There is no stream or springs flowing in and around to the mine lease area.

30	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, and for green belt development etc. The drains shall be regularly desilted and maintained properly, particularly after monsoon.	<b>Complied</b>
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The project proponent constructed effective garland drains to catch all the storm water during the time of monsoon season. These channels direct to the rain water collection pond. All sediments and silts are being settled at the bottom of the pond and only cleared water let out.

31	Regular monitoring of ground water level and quality shall be carried out around the mine area during mining operation. If any stage if it is observed that ground water table is getting depleted due to the mining activity. necessary corrective measures shall be carried out.	<b>complied</b>
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monitoring of ground water level and quality is being carried out around the mine area during mining operation regularly.

32	Garland drains and silt traps are to be provided in the slopes around the core area to channelize storm water. De-silting of Garland canal and silt traps have to be attended on a daily basis. A labour has to be specifically assigned for the purpose. The proponent shall ensure the	<b>Complied</b>
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	quality of the discharging storm water as per the General Effluent Discharge Standards of CPCB.	
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The project proponent ensure that all storm water from the mining area is flowing in to the pond created at mining area. The project proponent has created garland drains where it is necessary in the lower slopes of the project area for storm water management.

<b>33</b>	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 the EC was issued, the project would require a fresh appraisal by this Authority, for which the proponent shall apply and get the approval of this Authority. In the case of transfer of ECs, the matter shall be intimated and get the approval from the Authority as per the existing norms.	<b>Noted</b>
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There is no plan for the expansion of project. In case of any change(s) in the scope of the project, the proponent will apply for fresh appraisal to get the Environmental Clearance.

<b>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>complied</b>
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The stipulated orders and directions under different act and notification including EIA notification is being scrupulously followed. A brief list of various Acts and notifications which are followed by the proponent is given below

- Kerala Minor Mineral Concession Rules, 2015.
- Mines Act, 1952

- Explosive Rules, 2008
- Kerala Panchayat Raj Act, 1994
- Water Pollution (Prevention & Control) Act, 1974
- Air Pollution (Prevention & Control) Act, 1981
- Environment Protection Act, 1986
- EIA Notification, 2006 / 2009

<b>35</b>	The top soil, if any, shall be temporarily stored at earmarked place (5) and used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8m and width 20 and overall slope of the dumps shall be maintained at 45 The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. At critical points, use of geo textile shall be undertaken for stabilization of the dump. Protective wall or gabions should be made around the dump to prevent erosion flow of sediments during rains. The entire excavated area shall be backfilled.	<b>complied</b>
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In order to prevent the soil erosion, the top soil and overburden are stacked in a designated place within the project site. Only the topsoil is being used for plantation purposes. Overburden will be used for landfill and to construct haulage roads in the mining area. The excess will be stored in a designated place.

<b>36</b>	All the mining equipment used in Mining like backhoe loaders and excavators cause pollution and hence shall be serviced regularly & maintained for their efficient functioning and for reducing pollution. Disposal of spent oil from diesel engines should be as specified under relevant Rules Regulations.	<b>complied</b>
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All machineries working in the proposed quarry project is regularly maintained by the PP.

37	All vehicles used for transportation and within the mines shall have PUC certificate from authorized pollution checking centre. Washing of all vehicles shall be inside the lease area.	<b>Complied</b>
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As part of reduce air pollution, the project proponent monitors the pollution level of all vehicles playing in the project site. This monitoring is being conducted only in authorized pollution checking center.

38	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution such as haul road, loading and unloading points and transfer points and having high levels of PM <sub>10</sub> and PM <sub>2.5</sub> . 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.	<b>complied</b>
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To prevent dust emissions, the project proponent has installed sprinklers in critical areas to reduce the dust emission such as loading and unloading points, haul roads and transfer points. The water spraying has been carried out regularly to arrest the dust emission. The mobile sprinkler unit properly maintains.

39	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement at project site, parking area, on haul roads, loading and unloading and at transport points should be provided and properly maintained.	<b>complied</b>
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To reduce the dust emission in critical areas such as loading and unloading points, haul roads and transfer points the project proponent splashes water.

40	Corporate Environmental Responsibilities (CER) as prescribed by SEIAA/SEAC should be carried out leading to Environmental stability	<b>Complied</b>
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	of the Project region. The activities carried out under CER should be a part of the half yearly compliance report. The certificates from the beneficiaries, if the CER part is completed should also be submitted to the State Environment Impact Assessment Authority (SEIAA) along with year wise expenditure.	
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The quarry project is started in 17-05- 2024. The PP is in discussion with Grama Panchayat to finalize the CER and its execution. The expenditure incurred for CER will be reported in the HYCR. The PP is being support the community as part of its CER. Rs. 10,000 is provided for installing Mini high mast light in the community. The certificate of panchayat in this regard is attached as **Annexure No. 11**.

<b>41</b>	The project proponent is responsible for implementing all the provisions of labour laws applicable from time to time to quarrying Mining operations. The workers on the site should be provided with on-site accommodation or facilities at a suitable boarding place, protective equipment such as ear muffs, helmet, etc.	<b>complied</b>
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The PP is being implemented labour laws applicable for mining project.

<b>42</b>	The proponent has to provide insurance protection to the workers in the case of existing mining or provide the affidavit in case of fresh lease before execution of mining lease.	<b>complied</b>
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The PP has provided insurance protection to the workers during its operational phase.

<b>43</b>	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. The report of health surveillance programme should be included in the half yearly compliance reports.	<b>Will be complied</b>
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The project proponent will conduct an occupational health surveillance programme in association with Primary Health Center (PHC) of Kerala government for the labours working in mining area.

44	The pits in the abandoned quarries and in the mined area shall be used for activities like water harvesting, aqua culture etc. in an eco friendly manner.	<b>Noted</b>
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There is no abandoned pit. At the end of mine a pit will be developed which can be used as water harvesting, aqua culture etc

45	If Government land is partly or fully used for mining, the area shall be returned at the end of lease period after mine closure with separate demarcation with suitable survey marks.	<b>Noted</b>
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There is no Government land involved in the proposed mining project.

46	Any accident occurring in the mined out area after the lease period due to negligence in carrying out safety measures and non-closure, will lead to suspension of all EC obtained for mining by the Proponent.	<b>Noted</b>
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The PP has installed safety fencing around the mined out area to prevent any untoward incidents.

47	In case of transfer of EC the matter shall be intimated and approval from the Authority shall be obtained as per the existing norms.	<b>Noted for compliance</b>
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For transfer of EC , the PP will apply online Parvesh portal. At present there is no plan to transfer the EC.

48	The proponent shall submit Half Yearly Compliance Reports (1"of	<b>being</b>
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	<p>June &amp; 1<sup>st</sup> of December) 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 be simultaneously sent to the respective Regional Office of Ministry of Environment, Forests and Climate Change, Govt. of India and also to the Office of State Environment Impact Assessment Authority (SEIAA) The proponent has to submit Environmental statement in form V of Environment (Protection) Rules 1986 to SPCB on 31 March every year.</p>	<p><b>complied</b></p>
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The compliance report is being submitted to the State Environmental Impact Assessment Authority, Kerala and the Regional Office of MoEF&CC, Bangalore as mail. The compliance report and the EC order is uploaded in the website of the company. The PP is being monitored the various aspects of environment, the monitored data is attached as **Annexure No. 12, 13 & 14.**

<p><b>49</b></p>	<p>The project authorities should extend full cooperation to the officer (s) from the Regional Office of MOEF &amp; located at Bangalore/SEAC/SPCB/CPCB/dept of Mining and Geology, while monitoring compliance of the stipulated conditions, by furnishing the requisite data/information/monitoring reports.</p>	<p><b>Will be complied</b></p>
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The project proponent scrupulously follows the condition stipulated in the EC order and keeping all records with a good documentation system. The project proponent will extend all possible cooperation to the officers from regional office of MoEF & CC and can produce all data/information/reports when they are asking for the same.

<p><b>50</b></p>	<p>The above conditions shall prevail notwithstanding anything to the</p>	<p><b>Noted</b></p>
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	contrary, inconsistent, or simplified, contained in any other permit, license or consent given by any other authority for the same project.	
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The project proponent gives priority to the conditions stipulated in the Environment clearance Order.

<b>51</b>	The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the Environment Clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner	<b>Noted</b>
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The project proponent is willing to add additional safe guard measures subsequently if the authority found necessary.

<b>52</b>	The EC given will be withdrawn at any time if the area is declared high hazardous by the SDMA.	<b>Noted</b>
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<b>53</b>	The Environmental Clearance will be subject to the final order of the courts on any pending litigation related to the land or project, in any court of law.	<b>Noted</b>
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<b>54</b>	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.	<b>Noted</b>
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<b>55</b>	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.	<b>Noted</b>
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The project proponent has produced all factual data and no data concealed during the time of appraisal.

<b>56</b>	The SEIAA may revoke or suspend the order, for non implementation of any of the specific or any of the above conditions. The SEIAA reserves the right to alter modify the above conditions or stipulate any further condition in the interest of environmental protection.	<b>Noted</b>
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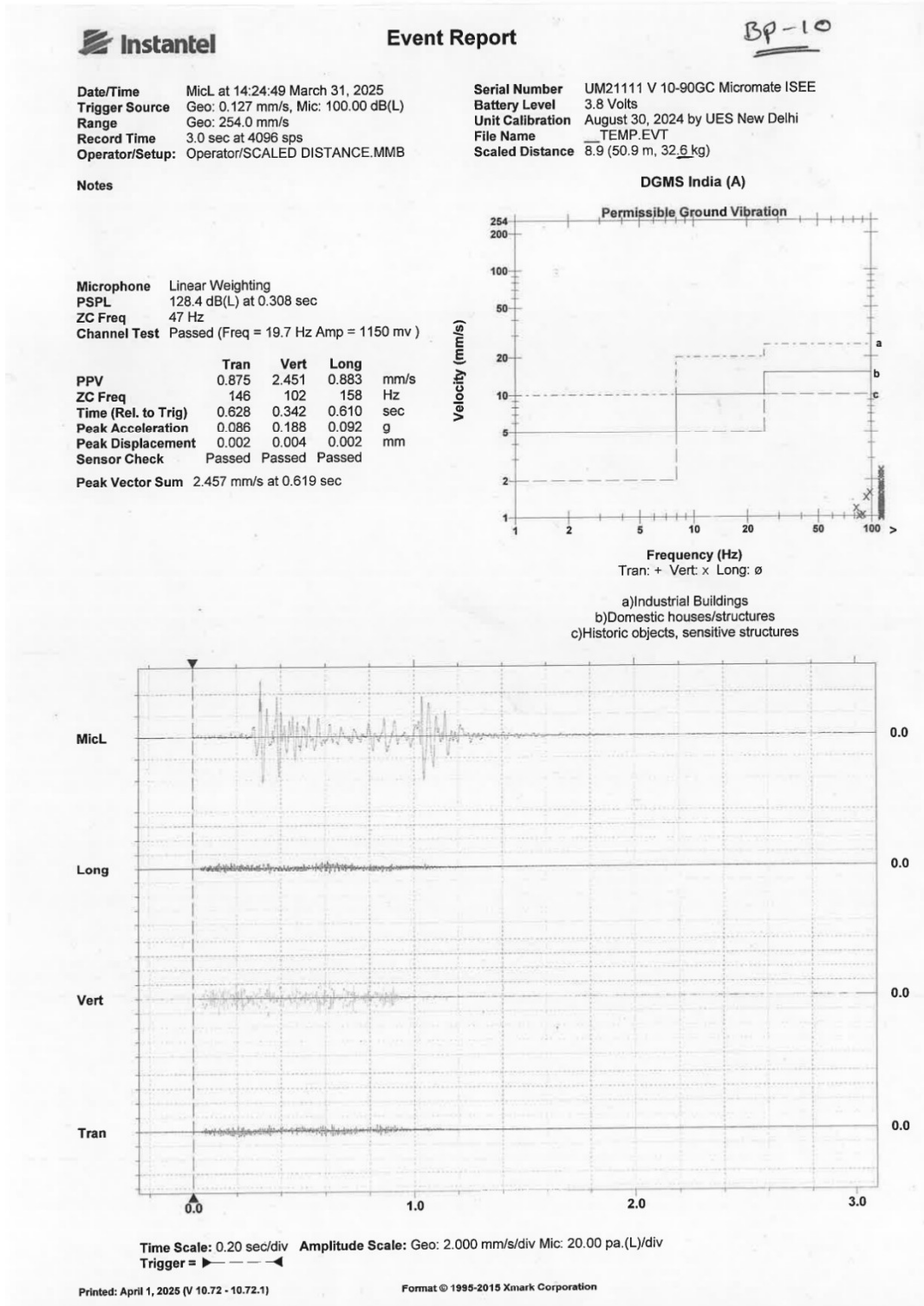
The project proponent has been implementing conditions stipulated in this Environment Clearance order. The project can execute all possible measures in the project site for the conservation of environment.

<b>57</b>	As per regulation no. 106(2) of metalliferous mines regulation under Mine act, the height of any bench shall not exceed six meters and breadth shall not be less than the height.	<b>Noted</b>
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The height of any bench will not exceed six meters and breadth shall not be less than the height during its operational phase.





# ANNEXURE

## Annexure No. A



## Monitoring of Vibration

## Annexure No.1

ENVIRONMENTAL CLEARANCE	 <b>Government of India</b> <b>Ministry of Environment, Forest and Climate Change</b> <b>(Issued by the State Environment Impact Assessment Authority (SEIAA), Kerala)</b>																		
<b>PARIVESH</b> <i>(Pro-Active and Responsive Facilitation by Interactive, and Virtuous Environmental Single-Window Hub)</i>	<p>To,</p> <p>The APPLICANT  ELDHO KURUVILLA  Thombrayil House, Chelad P.O., Kothamangalam, Ernakulam, Kerala - 686681 -686681</p> <p><b>Subject:</b> Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding</p> <p>Sir/Madam,</p> <p>This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/KL/MIN/74360/2019 dated 17 Jun 2022. The particulars of the environmental clearance granted to the project are as below.</p> <table border="0"> <tr> <td>1. EC Identification No.</td> <td>EC23B001KL188975</td> </tr> <tr> <td>2. File No.</td> <td>1446/EC3/2019/SEIAA</td> </tr> <tr> <td>3. Project Type</td> <td>New</td> </tr> <tr> <td>4. Category</td> <td>B1</td> </tr> <tr> <td>5. Project/Activity including Schedule No.</td> <td>1(a) Mining of minerals</td> </tr> <tr> <td>6. Name of Project</td> <td>Environmental Clearance for proposed Building Stone Mine quarry project of Sri Eldho Kuruville (ML area = 2.3337 ha) at Mazhuvannoor Village, Kunnathunadu Taluk, Ernakulam District, Kerala.</td> </tr> <tr> <td>7. Name of Company/Organization</td> <td>ELDHO KURUVILLA</td> </tr> <tr> <td>8. Location of Project</td> <td>Kerala</td> </tr> <tr> <td>9. TOR Date</td> <td>24 Oct 2019</td> </tr> </table> <p>The project details along with terms and conditions are appended herewith from page no 2 onwards.</p> <p style="text-align: right;">(e-signed)  Dr. Venu V IAS  Member Secretary  SEIAA - (Kerala)</p> <p>Date: 15/03/2023</p> <p><i>Note: A valid environmental clearance shall be one that has EC identification number &amp; E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.</i></p> <p><i>This is a computer generated cover page.</i></p> <div style="text-align: center;">   </div>	1. EC Identification No.	EC23B001KL188975	2. File No.	1446/EC3/2019/SEIAA	3. Project Type	New	4. Category	B1	5. Project/Activity including Schedule No.	1(a) Mining of minerals	6. Name of Project	Environmental Clearance for proposed Building Stone Mine quarry project of Sri Eldho Kuruville (ML area = 2.3337 ha) at Mazhuvannoor Village, Kunnathunadu Taluk, Ernakulam District, Kerala.	7. Name of Company/Organization	ELDHO KURUVILLA	8. Location of Project	Kerala	9. TOR Date	24 Oct 2019
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9. TOR Date	24 Oct 2019																		
	<p>EC Identification No. - EC23B001KL188975    File No. 1446/EC3/2019/SEIAA    Date of Issue EC - 15/03/2023    Page 1 of 15</p>																		



**PROCEEDINGS OF THE  
STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT  
AUTHORITY – KERALA, THIRUVANANTHAPURAM**

*(Present: Dr. H. Nagesh Prabhu IFS (Retd), Chairman, Shri. K. Krishna Panicker,  
Member, Dr. V. Venu IAS, Member Secretary)*

**Sub: SEIAA -Environmental Clearance for the Building Stone Quarry project of Sri. Eldho Kuruvilla, Thombrayil House, Chelad P.O., Kothamangalam, Ernakulam, Kerala - Granted – Orders issued.**

**State Level Environment Impact Assessment Authority, Kerala**

**Proposal No. SIA/KL/MIN/74360/2019**

**File No. 1446/EC3/2019/SEIAA**

Ref: 1. Application from Sri. Eldho Kuruvilla received on 17-06-2022.

2. Minutes of the 136<sup>th</sup> meeting of the SEAC held on 09<sup>th</sup> to 10<sup>th</sup> & 11<sup>th</sup> January, 2022.

3. Minutes of the 123<sup>rd</sup> SEIAA meeting held 27<sup>th</sup> & 28<sup>th</sup> January 2023.

4 G.O (Rt.) No.29/2019/Env dt.12.04.2019.

**ENVIRONMENTAL CLEARANCE NO.60/Q/2023**

Sri. Eldho Kuruvilla, Thombrayil House, Chelad P.O., Kothamangalam, Ernakulam, Kerala – 686 681, submitted an application for Environmental Clearance *via* PARIVESH, for the Granite Building Stone Quarry Project, for an area of 2.3337 Ha. at Block No: 29, Re. Survey Nos: 284/1, 279/2-2pt, 279/2pt, 284/2, 284/2-1pt, 284/2-4pt, 284/1-3pt, 284/2-5 & 284/1-1pt in Mazhuvannoor Village, Kunnathunadu Taluk, Ernakulam, Kerala. The project details are as follows:



EC Identification No. - EC23B001KL188975 File No. - 1446/EC3/2019/SEIAA Date of Issue EC - 15/03/2023 Page 2 of 15

SL. No.	Particulars	Details
1	Name of the Project	Granite Building Stone Quarry Project of Sri. Eldho Kuruvilla
2	Proposed Activity	Mining of Granite Building Stone
3	Name of the Sector & Schedule No. (in the ELA Notification, 2006)	Non Coal mining, Activity 1(a), Category B2
4	Name & Address of the Project Proponent	Sri. Eldho Kuruvilla, Thombrayil House, Chelad P.O., Kothamangalam, Ernakulam, Kerala – 686 681
5	Project Location	
	a) Block No.	29
	b) Re. Survey Nos.	284/1, 279/2-2pt, 279/2pt, 284/2, 284/2-1pt, 284/2-4pt, 284/1-3pt, 284/2-5& 284/1-1pt
	c) Revenue Village	Mazhuvannoor
	d) Taluk	Kunnathunadu
	e) District	Ernakulam
6	Geo Co-ordinates	Latitude 10°02'39.99" N to 10°02'45.30" N" Longitude 76°28'32.04" E to 76°28'44.07" E
7	Extent (Hectare)	2.3337 Ha.
8	Project Cost	Rs.7,71,23,700/-
9	Mineable reserves	12,52,010MT
10	Water Requirement	8 KLD (2KLD for domestic consumption; 6 KLD for dust suppression).
11	Date of Field Inspection	29.12.2022

**CER Details**

Particulars	Amount
Promotion of Renewable Energy (Solar Panel at FHC – Mazhuvannoor)	Rs. 10,50,000/-
Mini Solar High mast street light	Rs. 6,00,000/-
<b>Total</b>	<b>Rs. 16,50,000/-</b>



EC Identification No. - EC29500716L188975

File No. - 1446/EC3/2019/SEIAA

Date of Issue EC - 15/03/2023

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2. In the 136<sup>th</sup> meeting of the SEAC, the Committee examined the proposal, verified the documents and discussed the field inspection report. The proposed life of mine is 12 years for extracting 12,52,010 MT of granite building stone with maximum extraction rate of 2,00,000 TPA as per Mining Plan. The elevation of the site vary from 104-118m above MSL and the ultimate depth of mine is 55m above MSL. The depth to watertable is given as 5m bgl in the application and 35m above MSL in the field inspection report. The nearest built structure is at 52m and nearest house is at 183m. Based on discussions, the Committee recommended EC for a period of 12 years subject to the following with certain Specific Conditions in addition to the General Conditions.

3. In the 123<sup>rd</sup> SEIAA meeting, the Authority noted that for the sustainable management of quarry operations, the approved mining plan is revised every five years till the project life of mine as per KMMC Rules, incorporating scheme of activities to be carried out for the next 5 years. Authority is of the opinion that it is essential to match these procedures and time lines followed in the department of Mining and Geology with the time lines ECs issued for the sustainable management of quarry operations and protection of environment in the project region. The Authority decided to issue Environmental Clearance initially for a period of 5 years, for the quantity mentioned in the approved mining plan, and then to extend the EC period to cover the project life of 12 years, from the date of initiation of EC (i.e., date of execution of mine lease / permit), subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any of the EC conditions and thereby caused any damage to the environment in the project region.

The EC is subject to General Conditions and the following Additional Specific Conditions.

1. *The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
2. *The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease order should be provided to the SEIAA before commencing the mining activity.*
3. *The EC issued will be subject to a review by SEAC after 5 years through field*



*LA*

verification to ensure that mining is carried out sustainably as per the EC conditions.

4. Buffer zones should be demarcated and green belt should be developed by planting trees, herbs and climbers of local species.
5. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the area shall be submitted in HYCR.
6. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.
7. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.
8. Impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of peak particle velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
9. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
10. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
11. The haulage road should be widened and developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.
12. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
13. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office



14. The mitigation measures recommended in the EIA study for air environment, noise and vibration, water environment, land environment, ecological environment, socio-economic environment should be strictly adopted.
15. The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR.
16. Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.
17. The commitments made by the Project Proponent during the Public Hearing and in EIA/EMP should be addressed and implemented, and submit the report along with the Half Yearly Compliance Reports.
18. As per OM no F.No.22-65/2017-IA.III dated 30<sup>th</sup> September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER activities shall be 2% of the project cost.
19. In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife.
20. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16<sup>th</sup> January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The



*compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.*

21. *The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

**4. Environmental Clearance as per the EIA Notification, 2006 is hereby accorded for the Granite Building Stone Quarry Project of Sri. Eldho Kuruville, Thombrayil House, Chelad P.O., Kothamangalam, Ernakulam, Kerala – 686 681, initially for a period of 5 years, for an area of 2.3337 Ha. at Block No. 29, Re. Survey Nos: 284/1, 279/2-2pt, 279/2pt, 284/2, 284/2-1pt, 284/2-4pt, 284/1-3pt, 284/2-5 & 284/1-1pt, in Mazhuvannoor Village, Kunnathunadu Taluk, Ernakulam District, Kerala, for the quantity mentioned in the approved mining plan, from the date of execution of valid mining lease, as per SO 1807(E) dated 12.04.2022 of MoEF & CC, and then to extend the EC period to cover the project life of 12 years, from the date of initiation of original EC, subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any of the EC conditions and thereby caused any damage to the environment in the project region, subject to the Specific Conditions in Para 3 above, and all the environmental impact mitigation and management measures undertaken by the Project Proponent in the Form I, EMP, PFR and Mining Plan submitted to SEIAA. The assurances and clarifications given by the Project Proponent will be deemed to be a part of this Proceedings as if incorporated herein. Also the General Conditions for projects stipulated for mining (items 1 to 57), mentioned below will be applicable and have to be strictly adhered to.**

5. The Environmental Clearance issued will also be subject to full and effective implementation of all the undertakings given in the Application Form, mitigation measures as assured in the Environment Management Plan and the mining features including Progressive Mine Closure Plan as submitted with the application. The above undertakings and the conditions and the undertakings in (Mining), (Blasting), (Mines Drainage), (Stacking of Mineral rejects and Disposal of waste), (Environment Management Plan) & (Progressive Mine Closure Plan) of the Mining Plan as submitted will be deemed to be part of this Proceedings as conditions as undertaken by the Project Proponent, as if incorporated herein.



EC Identification No. - EC23BE01KL188975 File No. - 1446/EC3/2019/SEIAA Date of Issue EC - 15/03/2023 Page 7 of 15

6. Validity of the Environmental Clearance will be initially for a period of Five (5) years from the date of execution of valid mine lease from Mining & Geology Department as per SO 1807(E) dated 12.04.2022 of MoEF & CC, subject to earlier review of EC in case of violation or non-compliance of conditions or genuine complaints from residents within the security area of the quarry. The validity shall be extended to cover the project life of 12 years, as mentioned in Para (4).

7. Compliance with the conditions herein will be monitored by the State Environment Impact Assessment Authority or its authorised offices and also by the Regional Office of the Ministry of Environment, Forest & Climate Change, Govt. of India, Bangalore. Necessary assistance for entry and inspection should be provided by the Project Proponent and those who are engaged or entrusted by him to the staff for inspection or monitoring. Instances of violation if any shall be reported to the District Collector, Ernakulam.

8. The Half Yearly Compliance Report (HYCRs) with name of the project, EC No. and date, the period of submission with its contents, compliance report and environmental monitoring data & covering letter have to be uploaded in the Parivesh Portal as per O.M. F.No.IA3-22/1/2022-IA-III(E)-17264 dated 14.06.2022 and the website of the Project Proponent. Hardcopy of HYCRs shall not be acceptable.

9. The given address for correspondence with the authorised signatory of the project is Sri. Eldho Kuruvilla, Thombrayil House, Chelad P.O., Kothamangalam, Ernakulam, Kerala – 686 681.

#### GENERAL CONDITIONS

1. 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.
2. All the statutory clearances should be obtained, as applicable, by the project proponent from the respective competent authorities including that for blasting and storage of explosives. Copies of all statutory clearances shall be submitted along with First Half Yearly Compliance Report.



3. The project proponent should advertise in newspapers that the project has been accorded Environmental Clearance and copies of clearance letters are available in the Office of State Environment Impact Assessment Authority (SEIAA) and on the website of the Authority at [www.seiaakerala.in](http://www.seiaakerala.in). The advertisement should be in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language. The advertisement should be made within 10 days from the date of receipt of the Environmental Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.
4. The proponent shall send a copy of the EC to concerned Grama Panchayat/ District Panchayat/ 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 uploaded on the website of the company.
5. The lease area shall be fenced with barbed wire to a minimum height of 4ft around, before starting mining. All the boundary indicators (boards, markings, etc) shall be conspicuous and maintained at all times.
6. The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font 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.
7. Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department. Mats to reduce fly rock blasts to a maximum of 10 PPV should be provided.
8. Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged stipulated by Explosive Department.
9. Access roads to the quarry shall be black topped to contain dust emissions that may arise during transportation of materials. The transportation of minerals should be done in covered trucks to contain dust emissions.
10. A separate Environmental Management Cell (EMC) with suitable qualified personnel should be set-up under the chairmanship of a Senior Executive, who will report directly to the Head of the Organization. The Cell should have representative of Biodiversity Management Committee of the Panchayath and a representative of NGO, if any active in the area. The EMC should meet at least once in six months and review the activities and minutes should be



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a part of the compliance report.

11. Quarrying has to be carried out as per approved mining plan with the suggestions from SEAC incorporated and following KMMC rules 2015 and the Amendments thereby.
12. The quarrying operation (Blasting) shall be restricted between 7 AM and 5PM
13. Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.
14. Maximum depth of mining shall be as per the mining plan and as per specific direction of SEAC after field inspection. The maximum depth of mining should not be deeper than the local ground water table. No mining operations should be carried out at places having a slope greater than 45°.
15. The height of any bench shall not exceed five meters and breadth shall not be less than the height.
16. The Project proponent shall ensure that no perennial or intermittent natural water course and/or water resources are 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.
17. A minimum buffer distance specified as per existing rules and statutory orders shall be maintained from the boundary of the quarry to the nearest dwelling unit or other structures, and from forest boundaries or any other ecologically sensitive and archeologically important areas or the specific distance specified by SEIAA in EC as per the recommendations of SEAC depending on specific local conditions.
18. The proponent should plant seedlings at least 5 times of the loss of trees that has occurred while clearing the land for the project and follow planting measures as suggested by SEAC. Suitable avenue trees should be planted along the sides of the approach road and internal roads and open parking areas, if any. Preference should be given to endemic native and fruit bearing species. Planting in buffer areas should be taken up beforehand. Proper upkeep and maintenance of planted seedlings shall be ensured by the project proponent.
19. The proponent should ensure that the vegetation in the buffer is retained, maintained and strengthened with additions of native broad leaved plants.
20. Eco-restoration including the closure of mine as per the progressive closure plan and final closure plan shall be done at the cost of the project proponent. This eco-restoration should



follow scientific standards available for restoration, full recovery of the original vegetation and improving the resilience of different ecosystems. Overburden materials should be managed within the site and used for reclamation of mined pit as per mine closure plan / specific conditions.

21. 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 suitable indigenous plant species, if no other specific condition on reclamation of pit is stipulated in the E.C. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.
22. Control measures on noise and vibration prescribed by KSPCB should be implemented. Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.
23. Periodical monitoring of the vibration at specified location (preferably at a distance of 50 m and 100 m) to be conducted and records kept for inspection. This could also form a part of the compliance reports.
24. Speed of trucks entering or leaving the mine site is to be limited to moderate speed of 25 kmph to prevent undue noise from empty trucks.
25. 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 standard limit indicated by CPCB/KSPCB.
26. Blasting should be done in a controlled manner using NONEL technique as specified by the regulations of Petroleum and explosive safety organization (GOI) or any other concerned authorized agency. A licensed person should supervise/ control the blasting operations.
27. Measures should be taken for maintaining noise levels below 85 dBA in the work environment.
28. Project proponent should obtain necessary prior permission of the competent authorities for drawing requisite quantity of surface water and ground water for the project.
29. Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly compliance reports to SEIAA.
30. 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



EC Identification No. - EC2019/01/188975 File No. - 1446/EC3/2019/SEIAA Date of Issue EC - 15/03/2023 Page 11 of 15

into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, and for green belt development etc. The drains shall be regularly desilted and maintained properly, particularly after monsoon.

31. Regular monitoring of ground water level and quality shall be carried out around the mine area during mining operation. If any stage, if it is observed that ground water table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.
32. Garland drains and silt traps are to be provided in the slopes around the core area to channelize storm water. De-silting of Garland canal and silt traps have to be attended on a daily basis. A labour has to be specifically assigned for the purpose. The proponent shall ensure the quality of the discharging storm water as per the General Effluent Discharge Standards of CPCB.
33. 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 the E.C was issued, the project would require a fresh appraisal by this Authority, for which the proponent shall apply and get the approval of this Authority. In the case of transfer of ECs, the matter shall be intimated and get the approval from the Authority as per the existing norms.
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.
35. The top soil, if any, shall be temporarily stored at earmarked place (s) and used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dumps shall be maintained at 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. At critical points, use of geo textile shall be undertaken for stabilization of the dump. Protective wall or gabions should be made around the dump to prevent erosion / flow of sediments during rains. The entire excavated area shall be backfilled.
36. All the mining equipment used in Mining like backhoe loaders and excavators cause pollution and hence shall be serviced regularly & maintained for their efficient functioning and for reducing pollution. Disposal of spent oil from diesel engines should be as specified



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- under relevant Rules/ Regulations.
37. All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution checking centre. Washing of all vehicles shall be inside the lease area.
  38. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution such as haul road, loading and unloading points and transfer points and having high levels of PM<sub>10</sub> and PM<sub>2.5</sub>. 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.
  39. Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement at project site, parking area, on haul roads, loading and unloading and at transport points should be provided and properly maintained.
  40. Corporate Environmental Responsibilities (CER) as prescribed by SEIAA/SEAC should be carried out leading to Environmental stability of the Project region. The activities carried out under CER should be a part of the half yearly compliance report. The certificates from the beneficiaries, if the CER part is completed should also be submitted to the State Environment Impact Assessment Authority (SEIAA) along with year wise expenditure.
  41. The project proponent is responsible for implementing all the provisions of labour laws applicable from time to time to quarrying /Mining operations. The workers on the site should be provided with on-site accommodation or facilities at a suitable boarding place, protective equipment such as ear muffs, helmet, etc.
  42. The proponent has to provide insurance protection to the workers in the case of existing mining or provide the affidavit in case of fresh lease before execution of mining lease.
  43. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. The report of health surveillance programme should be included in the half yearly compliance reports.
  44. The pits in the abandoned quarries and in the mined area shall be used for activities like water harvesting, aqua culture etc. in an eco friendly manner.
  45. If Government land is partly or fully used for mining, the area shall be returned at the end of lease period after mine closure with separate demarcation with suitable survey marks.



46. Any accident occurring in the mined out area after the lease period due to negligence in carrying out safety measures and non-closure, will lead to suspension of all EC obtained for mining by the Proponent.
47. In case of transfer of EC the matter shall be intimated and approval from the Authority shall be obtained as per the existing norms.
48. The proponent shall submit Half Yearly Compliance Reports (1<sup>st</sup> of June & 1<sup>st</sup> of December) 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 be simultaneously sent to the respective Regional Office of Ministry of Environment, Forests and Climate Change, Govt. of India and also to the Office of State Environment Impact Assessment Authority (SEIAA). The proponent has to submit Environmental statement in form V of Environment (Protection) Rules 1986 to SPCB on 31<sup>st</sup> March every year.
49. The project authorities should extend full cooperation to the officer (s) from the Regional Office of MOEF & CC located at Bangalore/SEAC/SPCB/CPCB/dept of Mining and Geology, while monitoring compliance of the stipulated conditions, by furnishing the requisite data/information/monitoring reports.
50. 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.
51. The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the Environment Clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
52. The EC given will be withdrawn at any time if the area is declared high hazardous by the SDMA.
53. The Environmental Clearance will be subject to the final order of the courts on any pending litigation related to the land or project, in any court of law.
54. 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.



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55. 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.
56. The SEIAA may revoke or suspend the order, for non implementation of any of the specific or any of the above conditions. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environmental protection.
57. As per regulation no. 106(2) of metalliferous mines regulation under Mine act, the height of any bench shall not exceed six meters and breadth shall not be less than the height.

Sd/-

**Administrator, SEIAA  
For Member Secretary, SEIAA**

To,

Sri. Eldho Kuruvilla,  
Thombrayil House,  
Chelad P.O.,  
Kothamangalam,  
Ernakulam, – 686 681

Copy to,

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4<sup>th</sup> Floor, E&F Wing, II Block, Koramangala, Bangalore-560034(through e-mail: ros.z.bng-mefcc@gov.in).
2. The Additional Chief Secretary to Government, Environment Department, Government of Kerala.
3. The Director, Directorate of Environment & Climate Change, 4<sup>th</sup> Floor KSRTC Bus Terminal, Thampanoor, Thiruvananthapuram, Kerala- 695 001.
4. The District Collector, Ernakulam.
5. The Director, Mining & Geology, Thiruvananthapuram -4.
6. The Member Secretary, Kerala State Pollution Control Board.
7. The District Geologist, Ernakulam.
8. The Tahsildhar, Kunnathunadu Taluk, Ernakulam.
9. The Secretary, Mazhuvannoor Grama Panchayat, Kunnathunadu Taluk, Ernakulam.
10. The Chairman, SEIAA.
11. Website.
12. S/f
13. O/c



Signature Not Verified

Digitally signed by Dr. Venu V IAS  
Member Secretary  
Date: 3/15/2023 3:47:35 PM

**Copy of Environmental Clearance**

**Annexure No.2****FILE NO : KSPCB/ER2/ICO/10025315/2023****Date of issue : 04-04-2023****KERALA STATE POLLUTION CONTROL BOARD****CONSENT TO****OPERATE/AUTHORISATION/REGISTRATION****ISSUED UNDER**

The Water (Prevention &amp; Control of Pollution) Act, 1974

The Air (Prevention &amp; Control of Pollution) Act, 1981

and

The Environment (Protection) Act, 1986

**As per Application No. : 10025315****Dated : 24-03-2023****To****QUARRY OF ELDHO KURUVILLA  
CHEENIKUZHY,,N.MAZHUVANNOOR P O,,ERNAKULAM,****Consent No. : KSPCB/ER2/ICO/10025315/2023****Valid Upto : 15-03-2028**

**1. GENERAL**

1.1. This integrated consent is granted subject to the power of the Board to withdraw consent, review and make any variation in or revoke all or any of the conditions as the Board deems fit

1	<b>VALIDITY</b>	15-03-2028
2	Name and Address of the establishment	QUARRY OF ELDHO KURUVILLA CHEENIKUZHY,,N.MAZHUVANNOOR P O,,ERNAKULAM, E-Mail : eldhok@gmail.com Contact Number : 9447707173
3	Occupier Details	ELDHO KURUVILLA THOMBRAIYIL HOUSE, CHELAD P O, KOTHAMANGALAM, ERNAKULAM E-Mail : eldhok@gmail.com Contact Number :
4	Local Body	MAZHUVANNOOR
5	Survey Number	284/1, 279/2-2 PT, 279/2 PT, 284/2, 284/2-1 PT, 284/2-4 PT,284/1-3 PT, 284/2-5, 284/1-1 PT
6	Village	Mazhuvanmoor
7	Taluk	Kunnathunad
8	District	ERNAKULAM
9	Capital Investment(Rs in Lakhs)	771.237
10	Scale	Medium
11	Category	RED
12	Annual fee(Rs)	60000.0
	Total Fee remitted(Rs)	300000.0
13	Activity	Excavation of granite building stone from an area of 2.337 Ha in Sy Nos 284/1, 279/2-2pt, 279/2pt, 284/2, 284/2-1pt, 284/2-4pt,284/1-3pt, 284/2-5& 284/1-1pt Block No.29, Mazhuvanmoor Village at a rate of 2,00,000 Ton/Annum.

**Copy of Consent to Operate**



## KERALA STATE POLLUTION CONTROL BOARD

FILE NO. : KSPCB/ER2/ICO/10052220/VAR/2024  
Date of issue : 04-01-2024

### CONSENT VARIATION ORDER

**Consent No : KSPCB/ER2/ICO/10052220/VAR/2024**  
**Valid upto : 15-03-2028**

REF: Consent Operate No. KSPCB/ER2/ICO/10025315/2024 dated on 04-04-2023

The Integrated Consent to Operate issued as per reference above to **M/s QUARRY OF ELDHO KURUVILLA , CHEENIKUZH, N. MAZHUVANNOOR P O, ERNAKULAM** is hereby modified & issued to **M/s QUARRY OF ELDHO KURUVILLA , CHEENIKUZH, N. MAZHUVANNOOR P O, ERNAKULAM**. 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.

#### 1. GENERAL CONDITIONS

SL NO.	ITEMS	DESCRIPTION
1.	VALIDITY	15.03.2028
2.	CAPITAL INVESTMENT	Rs. 771.237 LAKH
3.	CATEGORY	RED
4.	ANNUAL FEE	Rs. 60000/-
5.	FEE REMITTED	Rs. 6000/-
6.	ACTIVITY	Excavation of granite building stone from an area of <b>2.3337 Ha</b> in Sy Nos 284/1, 279/2-2pt, 279/2pt, 284/2, 284/2-1pt, 284/2-4pt, 284/1-3pt,

	284/2-5 & 284/1-1pt of Block No.29, Mazhuvanoor Village at a rate of 2,00,000 Ton/ Annum
--	--

**2.SPECIFIC CONDITIONS**

1. This consent variation order is granted on the basis of the affidavit and other documents furnished by the applicant. If the statement furnished in the affidavit /document is found false or in the case of noncompliance of integrated consent to operate conditions the consent issued will be withdrawn /cancelled.
2. THIS CONSENT VARIATION ORDER IS ISSUED TO CORRECT THE EXTEND OF AREA FROM 2.337 Ha TO **2.3337 Ha** BASED ON THE REQUEST LETTER FROM THE APPLICANT AND AFTER VERIFYING OTHER DOCUMENTS SUBMITTED.
3. ALL OTHER CONDITIONS OF THE INTEGRATED CONSENT TO OPERATE ISSUED AS PER REFERENCE ABOVE REMAIN UNCHANGED.

Digitally signed by Sajeesh Joy  
Date: 2024.01.04 22:24:18 IST


SIGNATURE OF ISSUING AUTHORITY  
ENVIRONMENTAL ENGINEER

**To**  
M/s QUARRY OF ELDHO KURUVILLA  
CHEENIKUZHY, N.MAZHUVANNOOR P O, ERNAKULAM  
E-Mail : eldhok@gmail.com  
Contact Number :9447707173,

- 1.This digitally signed document is legally valid as per the Information Technology Act 2000
2. For verifying this document please go to [www.keralapcbonline.com](http://www.keralapcbonline.com) 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 Phoenix website.

**Consent to Operate – Variation**

## Annexure No.3

  
 भारत सरकार | Government of India  
 वणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industry  
 पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो) | Petroleum & Explosives Safety Organisation (PESO)  
 पूर्व नाम, विस्फोटक विभाग | Formerly - Department of Explosives  
 केंद्रीय भवन, ब्लाक सी-2, तीसरी मंजिल | Kendra Bhavan, Block C-2, 3rd Floor  
 CSEZ पी ओ कक्काणाड कोच्ची | CSEZ PO Kakkanaad Dist Ernakulam Emakulam 682037  
 फोन (Phone)- 2427286 | फेक्स (Fax)- 2427276

संख्या (No.): E/SC/KL/22/1223(E54740) दिनांक (Date): 30/01/2024

सेवा में | To.

Shri ELDHO KURUVILLA, Cochin Granites Pulickal Associates,  
North Muzhuvanoor P.O Kunnathunad taluk, Town Village - North Muzhuvanoor  
District-ERNAKULAM, State-Kerala, Pincode - 682019

विषय Survey No 282/3-2 of Block 29, , ग्राम Mazhuvanoor(v) Kunnathunad Taluk, Ernakulam Dist, जिला ERNAKULAM, राज्य Kerala में मेसर्स Shri ELDHO KURUVILLA, Cochin Granites Pulickal Associates द्वारा विस्फोटक के मेगजीन में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुज्ञप्ति सं E/SC/KL/22/1223(E54740) के संशोधन संदर्भ में।  
( अरेखण / सुविधाएं / परिसर में परिवर्तन )

Subject Possession for Use of of Explosives from magazine situated at Survey No.:282/3-2 of Block 29, , Mazhuvanoor(v) Kunnathunad Taluk, Ernakulam Dist, Dist. ERNAKULAM, Kerala -Licence No.: E/SC/KL/22/1223(E54740) granted in Form I.E-3 of Explosives Rules, 2008 - ( Amendment in Drawings/Facilities/Premises).

महोदय | Sir,

आपका उपर्युक्त विषय पर पत्र संख्या 106488 दिनांक 25/01/2024 का संदर्भ ग्रहण करें।  
Please refer to your letter no 106488 dated 25/01/2024

अनुज्ञप्ति संख्या E/SC/KL/22/1223(E54740) Intimation regarding quarrying operations at Block No. 29, Re. Survey Nos: 284/1, 279/2-2pt, 279/2pt, 284/2, 284/2-1pt, 284/2-4pt, 284/1-3pt, 284/2-5 & 284/1-1pt. in Mazhuvanoor Village, Kunnathunadu Taluk, Ernakulam District, Kerala vide EC Identification No. - EC23B001KL188975, File No. - 1446/EC/3/2019/SEIAA, Date of Issue EC - 15/03/2023 is acknowledged के संदर्भ में यथा संशोधित कर भेजी जा रही है।  
The Licence No. E/SC/KL/22/1223(E54740) is forwarded herewith duly amended in respect of followings .

Intimation regarding quarrying operations at Block No 29 Re. Survey Nos 284/1, 279/2-2pt, 279/2pt, 284/2, 284/2-1pt, 284/2-4pt, 284/1-3pt, 284/2-5 & 284/1-1pt. in Mazhuvanoor Village, Kunnathunadu Taluk, Ernakulam District, Kerala vide EC Identification No - EC23B001KL188975, File No - 1446/EC/3/2019/SEIAA, Date of Issue EC - 15/03/2023 is acknowledged

किरी भी एक समय में लाइसेंस क्षमता निम्नलिखित वर्ग तथा मात्रा से अधिक नहीं होगी।  
The licence capacity at any one time shall not exceed the kinds and quantities mentioned below .

संख्या No	विस्फोटक Explosive(s)	वर्ग Class	प्रभाग Div	उप-प्रभाग Sub Div	क्षमता Capacity	इकाई Unit
1	Nitrate Mixture	2	0	0	200	Kg
2	Safety Fuse	6	1	0	1000	Mtrs
3	Electric Detonators	6	3	0	10000	Nos
4	Ordinary Detonator	6	3	0	5000	Nos

किरी एक कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा (अनुच्छेद 3 (ख) और (ग) के अधीन अनुज्ञप्ति के लिए लागू) : 20 गुना  
Quantity of explosives to be purchased in a calendar month[applicable for licence under article 3(b) and (c)] : 20 times as above.

यह अनुज्ञप्ति दिनांक 31 मार्च 2029 तक प्रवृत्त रहेगी।  
This Licence shall remain valid till 31st day of March 2029.

अनुज्ञप्ति के आगामी नवीकरण हेतु कृपया विस्फोटक नियम, 2008 के नियम 112 के अंतर्गत प्रक्रिया का पालन करें। कृपया पारती दें।  
For further revalidation(if required), please follow the procedure under Rule 112 of Explosives Rules, 2008 Receipt of this letter may please be acknowledged

भवदीय | Your s faithfully

(दीपक कुमार | Deepak Kumar)  
विस्फोटक नियंत्रक | Controller of Explosives  
कृते उप मुख्य विस्फोटक नियंत्रक | For Dy. Chief Controller of Explosives  
कोच्ची | Ernakulam



प्रतिलिपि प्रेषित | Copy Forwarded to

1 District Magistrate, ERNAKULAM, Kerala with reference to his Noc No. D.Dis/38822/2010/M4 NOC No 02/2011 Dated 01/03/2011  
2 Superintendent of Police, ERNAKULAM, Kerala

कृते उप मुख्य विस्फोटक नियंत्रक | For The Dy. Chief Controller of Explosives,  
कोच्ची | Ernakulam

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

**Note :- This is system generated document does not require physical signature. Applicant may take printout for their records.**

Digitally signed by Deepak Kumar  
Reason: Licence No. E/SC/KL/22/1223  
Location Ernakulam [E54740]  
Date:30-01-2024 10:13:32 AM

## अनुज्ञापि प्ररूप रू. 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 अनुज्ञापि  
Licence to possess (c) for use explosives of class 1, 2, 3, 4, 5, 6 or 7 in a magazine

अनुज्ञापि सं. (Licence No.) : E/SC/KL/22/1223(E54740)

वार्षिक फीस रूपए (Annual Fee Rs) 3000-

1 Licence is hereby granted to

Shri ELDHO KURUVILLA, Cochin Granites Publick Associates (अधिभोगी / Occupier : Shri Eldho Kuruvilla Mg.Partner), North Muzhuvanoor P O Kumathunad taluk, Town/Village - North Muzhuvanoor, District-ERNAKULAM, State-Kerala, Pincode - 682019



को अनुज्ञापि अनुदत्त की जाती है।

2 अनुज्ञापिधारी की प्राप्ति। Status of licensee Individual

3 अनुज्ञापि निम्नलिखित प्रयोजनों के लिए विधिमाम्य है।

possess for use of Nitrate Mixture, Safety Fuse, Electric Detonators, Ordinary Detonator, - के उपयोग के लिए

Licence is valid only for the following purpose

4 अनुज्ञापि विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमाम्य है।

Licence is valid for the following kinds and quantity of explosives -- (क) (a)

क्र. सं.	नाम और विवरण	वर्ग और प्रभाग	उप-प्रभाग	मात्रा किसी एक समय में
Sr. No	Name and Description	Class & Division	Sub-division	Quantity at any one time
1	Nitrate Mixture	2.0	0	200 Kg
2	Safety Fuse	6.1	0	1000 Mtrs
3	Electric Detonators	6.3	0	10000 Nos
4	Ordinary Detonator	6.3	0	5000 Nos

(ख) किसी एक कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा (अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञापि के लिए)

20 times

(b) Quantity of explosives to be purchased in a calendar month applicable for licence under article 3(b) and (c)]

as above.

5 निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञापि परिसर की पुष्टि होती है।

रेखाचित्र क्र (Drawing No.) E/SC/KL/22/1223(E54740)

The licensed premises shall conform to the following drawing(s)

दिनांक (Dated) 30/01/2024

6 अनुज्ञापि परिसर निम्नलिखित पते पर स्थित है। The licensed premises are situated at following address

Survey No. 282/3-2 of Block 29, .. ग्राम (Town/Village) Mazhuvanoor, Kumathunad Taluk, Ernakulam Dist

पुलिस थाना (Police Station) : Puzhamburam

जिला (District) ERNAKULAM

राज्य (State) Kerala

पिनकोड (Pincode) 682019

दूरभाष (Phone) 0848423004936

ई मेल (E-Mail)

फैक्स (Fax)

7 अनुज्ञापि परिसर में निम्नलिखित सुविधाएं अंतर्भूत हैं।  
The licensed premises consist of following facilities

M &amp; S type porous magazine manufactured by industrial explosives ltd nagpur and D (517) fabricated by M/s. Thekkans Fabrication and engineering works

8 अनुज्ञापि समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाखण्डों 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

- उपपुस्तक 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
- अनुज्ञापि प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञापि 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 अनुज्ञापि तारीख 31 मार्च 2016 तक विधिमाम्य रहेगी। This licence shall remain valid till 31st day of March 2016.

यह अनुज्ञापि अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपवर्णित इस अनुज्ञापि की शर्तों का अधिकमण करने या यदि अनुज्ञापि परिसर योजना या उसके संशोधन में दृष्टिगत विवरण के अनुरूप नहीं पाए जाने पर निरस्त या प्रतिबंधित की जा सकती है, जहां वह लागू हो।

This licence is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under Set VIII, wherever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and Annexure attached hereto

तारीख | The Date - 09/05/2011

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

## Amendments :

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated 30/01/2014
- Amendment in Drawings/Facilities/Premises dated 22/06/2017
- Amendment in Drawings/Facilities/Premises dated 02/08/2022
- Amendment in Drawings/Facilities/Premises dated 11/05/2023
- Amendment in Drawings/Facilities/Premises dated 30/01/2024

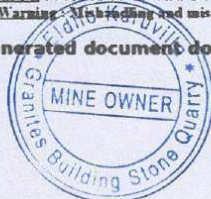
नवीनीकरण के पृष्ठांकन के लिए स्थान  
Space for Endorsement of Renewalनवीकरण की तारीख  
Date of Renewalसमाप्ति की तारीख  
Date of Expiryअनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टांप  
Signature of licensing authority and stamp

09/01/2024

31/03/2029

Sd/-  
Dy Chief Controller of Explosives, Ernakulamकानूनी चेतावनी : विस्फोटकों को गलत ढंग से बसाने 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.

Note :- This is system generated document does not require physical signature. Applicant may take printout for their records.

Digitally signed by Deepak Kumar  
Reason: Licence No E/SC/KL/22/1223  
Location Ernakulam [E54740]  
Date:30-01-2024 10:16:28 AM

Copy of Explosive

Annexure No.4

മഴുവനൂർ ഗ്രാമപഞ്ചായത്തിൽ നിന്നും  
1994ലെ പൊതു പഞ്ചായത്ത് രാജ് ആക്ട് (1994ലെ 13) 232, 233, 234, 254 എന്നീ വകുപ്പുകളും  
അതേ തുടർനാളുള്ള ചട്ടങ്ങളും അനുസരിച്ച്  
പാറുകൾ, വ്യാപാരങ്ങൾ, സംരംഭങ്ങൾ, മറ്റു സേവനങ്ങൾ എന്നിവയ്ക്കായി നൽകുന്ന  
**ലൈസൻസ്**

നമ്പർ : 400632/RPTL20/GPO/2024/753 തീയതി : 12.03.2024

ലൈസൻസിയുടെ പേരും മേൽവിലാസവും	എൽദോ കുരുവിള , തോന്ത്രയിൽ ഹൗസ് , ചേലാട്.പി.ഒ, കോതമംഗലം	
സ്ഥാപനത്തിന്റെ പേരും സ്ഥലനാമവും	QUARRY OF ELDHO KURUVILLA	
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	പാറ മുറിച്ച് സംഭരിച്ച് വിൽപന നടത്തുന്നതിന്	
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡ് നമ്പരും	284/1,279/2-2pt,279/2pt,284/2,284/2-1pt,284/2-4pt, 284/1-3pt, 284/2-5, 284/1-1pt of Mazhuvannoor village BI-29	
ലൈസൻസ് കാലയളവ്	01-04-2024 മുതൽ 31-03-2025 വരെ	
ഈടാക്കിയ ലൈസൻസ് ഫീസ്	₹15000	രസീത് നം: 1231302806 തീയതി: 05-02-2024
തൊഴിൽക്കരം	₹1250 + ₹1250	രസീത് നം: 1231302806 തീയതി: 05-02-2024
ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരീക്ഷണപത്രങ്ങളുടെ വീശദാംശങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാരസ്ഥാനം)	1) Letter of intent from Mining & Geology Dept. 2) Explosive licence from PESO No.E/SC/KL/22/1223(E-54740)valid upto 31/03/2029 3) EC No.60/Q/2023 from SEIAA valid upto 5 years,4) PCB No.KSPCB/ER2/ICO/10025315/2023 valid upto 15/03/2028	

സെക്രട്ടറി  
മഴുവനൂർ ഗ്രാമപഞ്ചായത്ത്  
**SECRETARY**  
**MAZHUVANNOOR GRAMAPANCHAYAT**  
**AIRAPURAM P.O, ERNAKULAM (DT)**  
Pin-683 541

Copy of Panchayat license

## Annexure No.5

D:\AG\TNT\2024\10

PROCEEDINGS OF THE DIRECTOR OF MINING & GEOLOGY,  
THIRUVANANTHAPURAM, KERALA  
(Present: Haritha.V. Kumar IAS)

No. 770/2023-24/DMG/7757/2021-M3 27-03-2024



Subject:- Department of Mining and Geology - Mines & Minerals - Minor Mineral Granite (Building Stone)- Quarrying Lease to Shri. Eldho Kuruvila, Thombrayil House, Chelad P.O., Kothamangalam, Ernakulam - 686 681 - sanctioned - orders - issued - reg.

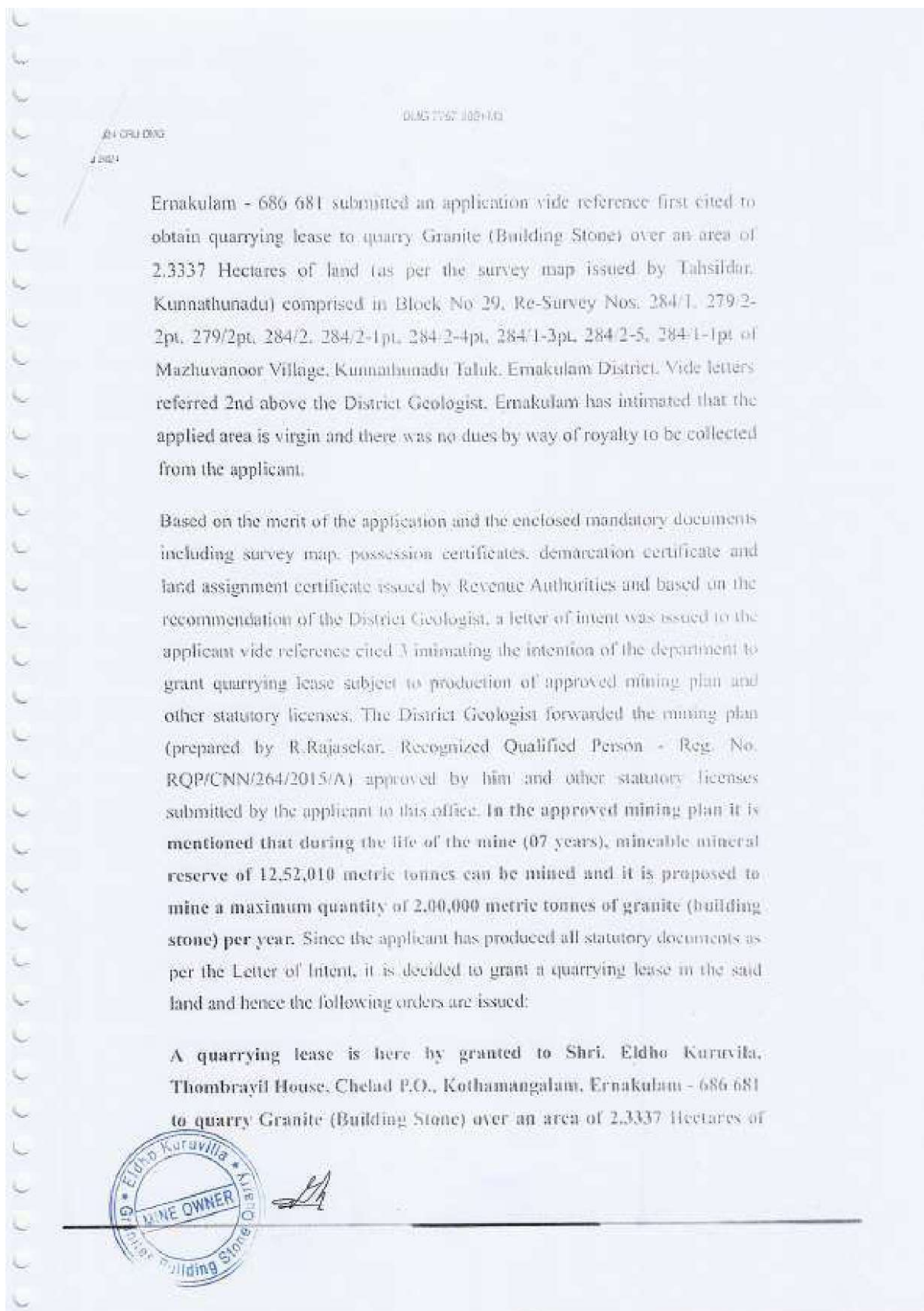
Ref:-

1. Application dated 27/04/2018 from Shri. Eldho Kuruvila, Thombrayil House, Chelad P.O., Kothamangalam, Ernakulam.
2. Letter No. DOE/1140/E2/18 dated 06.08.2018, 13/09/2023, 20/01/2024 from the Geologist, District Office, Ernakulam.
3. Letter of Intent No. 9024/M3/2018 dated 27/09/2018 issued by Director of Mining and Geology.
4. Environmental clearance No. 60/Q/2023, Dated 15/03/2023 by the State Environment Impact Assessment Authority, Kerala.
5. Integrated consent to operate No. KSPCB/ER2/ICO/10025315/2023 dated 04.04.2023 issued by Kerala State Pollution Control Board Palakkad (valid till 15.03.2028).
6. Explosive License No. E/SC/KL/22/1223(E54740) dated 11.05.2023 issued by Petroleum and Explosives Safety Organization, Ernakulam (valid till 31.03.2024).
7. Dangerous and Offensive Trade License No.400632/RPTL19/GPO/2023/3642 dated 21.08.2023 issued by the Secretary Mazhuvanoor Grama Panchayath (valid till 31.03.2024).
8. Mines and Minerals (Development & Regulation) Act, 1957.
9. Kerala Minor Mineral Concession Rules, 2015.
10. Kerala Minerals (Prevention of Illegal Mining, Storage & Transportation) Rules 2015.

**ORDER**

Shri. Eldho Kuruvila, Thombrayil House, Chelad P.O., Kothamangalam.



Copy of lease order

Annexure No.6

No. ~~1965/2024~~ 1967/2024




भारतीय गैर न्यायिक  
भारत INDIA

On production of original Document  
I have satisfied myself that an amount of  
**₹. 500** (4,70,115/- Four lakhs seventy thousand one hundred & fifteen) have been levied as stamp duty there on  
on the 8<sup>th</sup> day of April 2024  
Sub Registrar Puthanorez

**₹. 500**  
FIVE HUNDRED RUPEES  
पाँच सौ रुपये  
INDIA NON JUDICIAL

കേരളം കേരल KERALA L 757222

**FORM H**  
(See Rule 43)  
**QUARRYING LEASE**  
(Presenter)  
**ELDHO KURUVILLA**




This Deed of lease made on this the 8<sup>th</sup> day of April 2024 between the **GOVERNOR OF KERALA** (hereinafter referred to as the "State Government" which expression shall, where the context so admits


**LESSOR**  
Dr. MANU C.S.  
Geologist  
Dept. of Mining and Geology  
Puthanorez, Ernakulam - 682 030

**LESSEE** *[Signature]*  
08.04.24

500  
*[Signature]*  
Eldho Kuruvilla -  
Chelad P.O.



**MINE OWNER**  
Eldho Kuruvilla  
Mines Building



**SUB TREASURY**  
27 APR 2024

be deemed to include his successors and assigns) of the one part and **ELDHO KURUVILLA**, aged 45 years, S/o. Thombrayil Uthup Kuruvilla, Business, residing at Thombrayil House, Kothamangalam Village, Chelad P.O, Pincode- 686 681, Kothamangalam Taluk, Ernakulam District having Aadhaar Card No. 7316 8727 5445 (hereinafter called the Lessee) which expression shall where the context so admits, include his heirs, executors, administrators, representatives and permitted assigns) of the other part.

Witnesseth that in consideration of the rents and royalties and lessee's covenants hereinafter reserved and contained the State Government hereby give on lease to the lessee/lessees the land measuring 2.3337 Hectares described in the schedule hereunder and delineated on the plan hereto annexed and therein coloured red (hereinafter called the "said lands") to hold the same for a period of **07 (Seven)** years commencing from the 08.04.2024 and ending on the 07.04.2031 for the purposes of extracting minor mineral/minerals and subject to the terms and conditions contained in the Kerala Minor Mineral Concession Rules, 2015 and Kerala Minor Mineral Concession (Amendment) Rules, 2023 (hereinafter referred to as "the Rules") and to the terms and conditions hereinafter appearing.

1. The lessee/lessees shall have the right in and upon the said lands to extract Granite Building Stone (hereinafter called the said mineral/minerals) and to do all acts necessary for the extraction of the said mineral/minerals including the erection on the said lands, building and plant required for the purposes and also to take lead and carry away over the said lands and to dispose of the said minerals extracted as aforesaid.

  
8.4.24


**LESSOR**  
**Dr. MANJU C.S.**  
Geologist

Dept. of Mining and Geology  
District Office, Ernakulam - 682 030



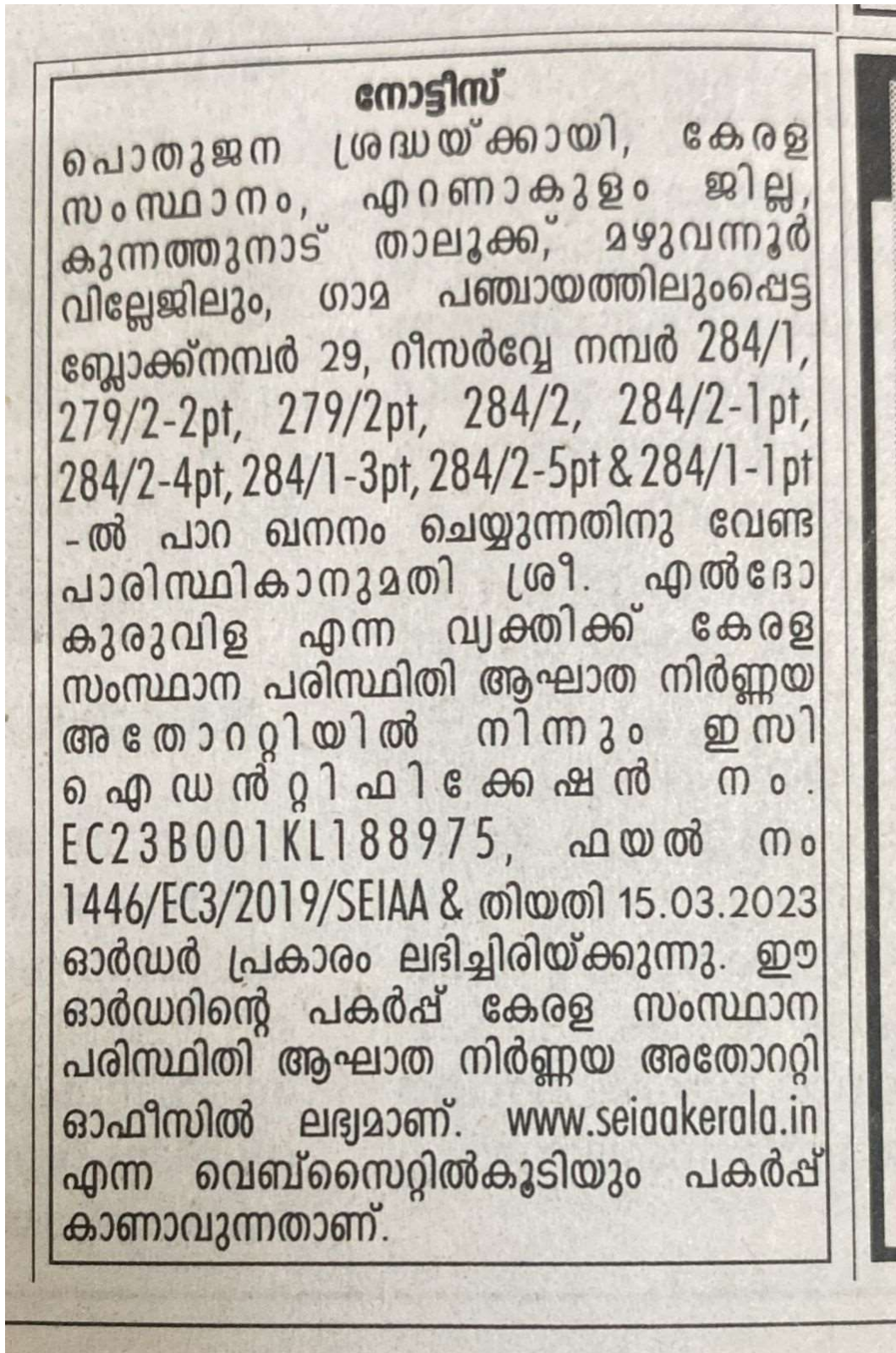


**LESSEE**

  
08.04.24

## Lease agreement

## Annexure No.7



**NOTICE**

This is to inform to the General Public that the proposed quarry project at Re. Survey Nos: 284/1, 279/2-2pt, 279/2pt, 284/2, 284/2-1pt, 284/2-4pt, 284/1-3pt, 284/2-5pt & 284/1-1pt of Block No. 29 Mazhuvannoor Village, Kunnathunadu Taluk, Ernakulam District, Kerala is being developed by Mr. Eldho Kuruvilla is accorded with ENVIRONMENTAL CLEARANCE by State Environment Impact Assessment Authority, Kerala India vide EC Identification No. EC23B001KL188975 & File No. 1446/EC3/2019/SEIAA dated 15.03.2023 and the copy of the Environment Clearance is available with the office of State Environment Impact Assessment Authority, and may also be seen on the website of the Authority at [www.seiaakerala.in](http://www.seiaakerala.in).





Copy of Notice Published in News paper

## Annexure No.8

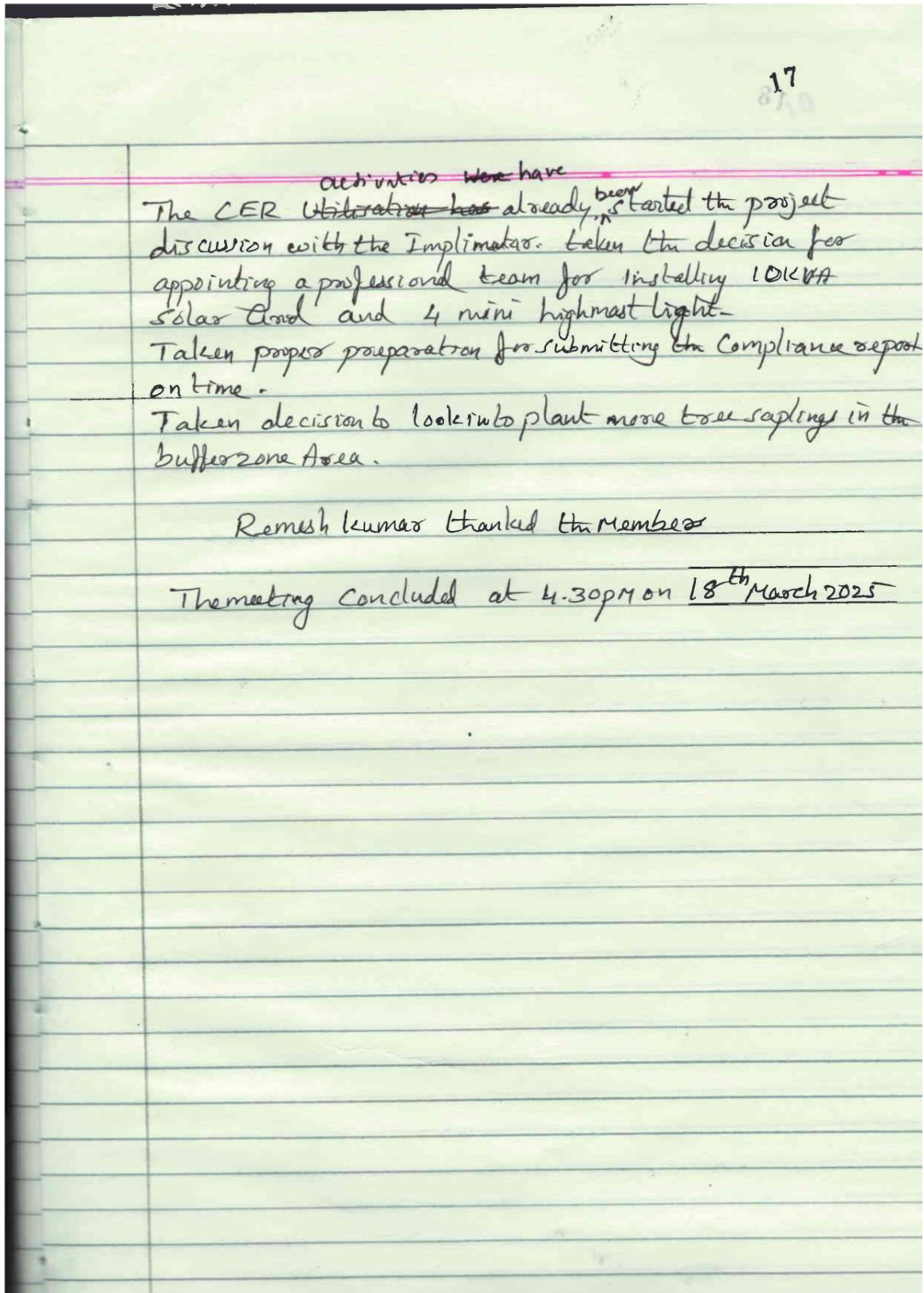
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MINUTES OF THE MEETING OF THE EMC OF ELDHO-KURUVILLA (QUARRY OF ELDHOKURUVILLA) HELD AT IT'S OFFICE AT CHEENIKUZHAY AT. 3 PM. ON 18-03-2025

The third meeting of the Environment Management Cell of the Quarry of Eldhokuruvilla was held at 3 PM on 18-03-2025 under the chairmanship of Mr. Eldhokuruvilla, owner to discuss about the progress of measures that discussed in the second meeting held on 16-09-2024. The following members of EMC were present in the meeting.

SL-NO:	Named the Personnel Present	Designation	Signature
1	Eldhokuruvilla, owner	Chairman	
2	Thampiraman, Group General Manager	Member	
3	Remesh Kumar P., General Manager (Quarry)	- " -	
4	Jomon, EIA Co-ordinator	External Member	

Discussions made by all members to strictly follow the mining activities and follow the Mining Plan. Taken proper discussions and attention for nurturing the saplings that planted in the 7.5 m to 20 m Buffer zone. In Afforestation plantation has done with different species of saplings like Mango, njaval and Casheo tree. Silboation pond, overflow channel works has completed.

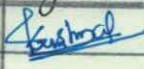


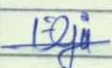

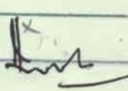


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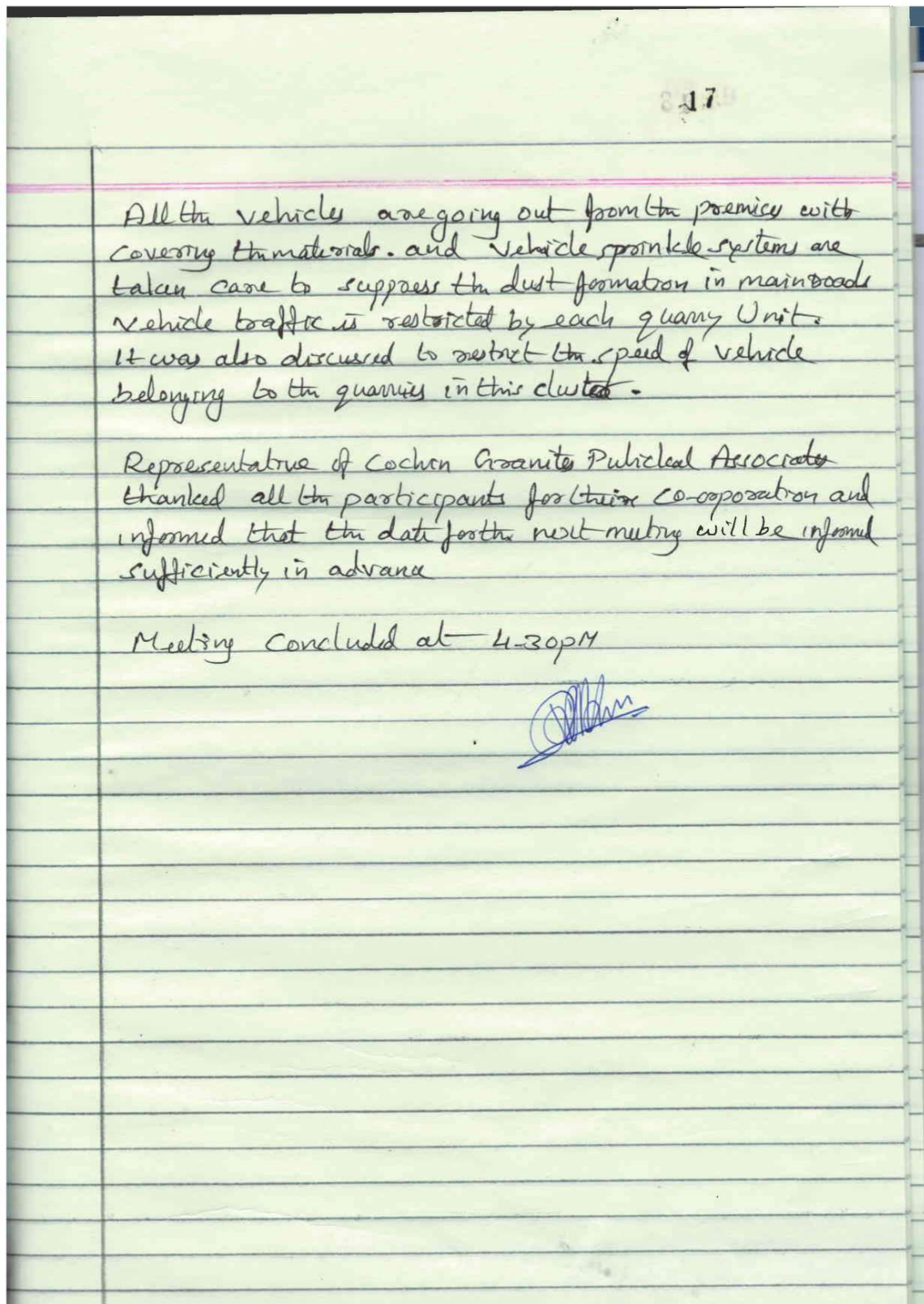
MINUTES OF THE MEETING OF THE REPRESENTATIVES OF THE QUARRY FORMED A CLUSTER IN NORTH-MAZHUVANNOOR AREA ON - 23-12-2024. AT THE QUARRY OFFICE OF COCHIN GRANITES PULICKAL ASSOCIATES.

A meeting of the representatives of the Quarries in cluster area of North Mazhuvannoor area is held at the quarry office of Cochin Granites Pulickal Associates at 3PM on - 23-12-2024 for the discussion to mitigate the effects of quarrying on the environment in the North Mazhuvannoor cluster.

This is the third meeting held here to discuss the mitigation taken in this area.

Name of the Quarry	EC-NO:	Represented by	Signature
1 P.V. Santhosh	1783/EC3/2020/SEIAA Dated - 8-10-2021	Koishnadar	
2 Gowtham V. Pavithran	542/SEIAA/KL/3886/2016 Dated - 27-02-2018	Nandulal	
3 Sanju	68/Q/2022/1469/EC3/19 Dated - 19/07/2022	Sanju	
4 P.K. Prasad	23B001KL180039 Dated - 15-03-2023	Elju Thomas	
5 Eldhokunavilla	23B001KL188975 Dated - 15-03-2023	Ramesh Kumar	
6 Cochin Granites Pulickal Associates	22B001KL180424 Dated - 11-10-2022	Thampisena	

The representatives of each of the Quarries

**Minutes of EM C**

## Annexure No. 9

BILL OF SUPPLY ORIGINAL FOR RECIPIENT



## Evergreen Agro Garden

Mannuthy, Thrissur, Kerala,  
Mobile: 7012885045

Invoice No.: 1023

Invoice Date: 15/03/2025

Due Date: 22/03/2025

## BILL TO

Eldho Kuruvilla 189/P, Cheenikuzhy, N. Mazhuvannoor.P.O., Ernakulam 686669 GST. 32AFMPK7015C4ZS

Mobile: 8606454644

ITEMS/SERVICES	QTY.	RATE	AMOUNT
മല്ലിക മാവ്	20	450	9,000
കൊളമ്പ് മാവ്	15 PCS	450	6,750
നാം ട്രോക്മയി മാവ്	15 PCS	450	6,750
വൈറ്റ് ഞാവൽ	10	475	4,750
ഞാവൽ	15	475	7,125
സൂകന്യ കശുമാവ്	25	475	11,875

SUBTOTAL

-

₹ 46,250

## TERMS AND CONDITIONS

- Goods once sold will not be taken back or exchanged
- All disputes are subject to [ENTER\_YOUR\_CITY\_NAME] jurisdiction only

TOTAL AMOUNT

₹ 46,250

Received Amount



₹ 0

Total Amount (in words)

Forty Six Thousand Two Hundred Fifty Rupees

Bill against plants purchased

## Annexure No. 10

**खान अधिनियम 1952**  
**THE MINES ACT 1952**


**प्रथम श्रेणी प्रबंधक सक्षमता प्रमाण-पत्र धातुउत्पादक खान के प्रबंध हेतु**  
**MANAGER'S FIRST CLASS CERTIFICATE OF COMPETENCY TO MANAGE A METALLIFEROUS MINE**  
 (धातुउत्पादक खान विनियम, 1961 के अन्तर्गत)  
 (Under the Metalliferous Mines Regulations 1961)  
 (केवल विद्युत खनित खानों तक ही सीमित)  
 (Restricted to mines having opencast workings only)

**जय प्रगलाशन . जि**

जिनको जन्म दिनांक 11.12.1968 है, विनियम 16 के अन्तर्गत अनुमोदित खान अधिकाधिकारी में शिरो प्राप्त करने पर एवं दिनांक सितम्बर, 2007 को आयोजित विहित परीक्षा में उत्तीर्ण होने पर एतद्वारा केवल विद्युत खनित धातुउत्पादक खान के प्रबंध हेतु प्रथम श्रेणी प्रबंधक सक्षमता प्रमाण-पत्र प्रदान किया जाता है। यह प्रमाण-पत्र 02.04.2008 से प्रभावी समझा जाएगा।

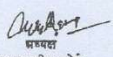
*Jai Pragalathan . Ji*

born on 11<sup>th</sup> December, 1968 possessing a Degree in Mining Engineering approved under Regulation 16 and having passed the prescribed examination held on September, 2007 is hereby granted MANAGER'S FIRST CLASS CERTIFICATE OF COMPETENCY to manage a metalliferous mine having opencast workings only. This Certificate is effective from 02.04.2008



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

Signed and Sealed  
Date: 04.09.2008.



अध्यक्ष  
खान परीक्षा बोर्ड  
Chairman of the Board of  
Mining Examinations



*Self Attested*

*(G. JAI PRA GALATHAN)*

Certificate of Mines manger




## Annexure No. 10B

Cert No. MR/SZ/480

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



R. SARAVANAN

श्री सुपुत्र है, को अपनी जिनकी जन्म तिथि आयु, स्वस्थता, सदाचार, साक्षरता और धात्विकीय खानों में काम करने के विहित अनुभव का सन्तोषजनक प्रमाण प्रस्तुत करने एवं दिनांक को केन्द्र पर आयोजित विहित परीक्षा में उत्तीर्ण होने पर एतद्वारा केवल ओपेनकास्ट खानों तक सीमित मेट सक्षमता प्रमाण-पत्र प्रदान किया जाता है।

श्री **R. SARAVANAN** son of **S. RAMALINGAM**  
 born on **05<sup>TH</sup> MAY, 1985 (EIGHTY FIVE)** 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 **MVTC, SANDUR** centre on **28.04.2014** is hereby granted **MINING MATE'S CERTIFICATE OF COMPETENCY** restricted to mines having opencast workings only.

बाएं हाथ के निशान  
 Left hand thumb impression

अंचल सचिव  
 खनन परीक्षा बोर्ड  
 Zonal Secretary  
 Board of Mining  
 Examinations

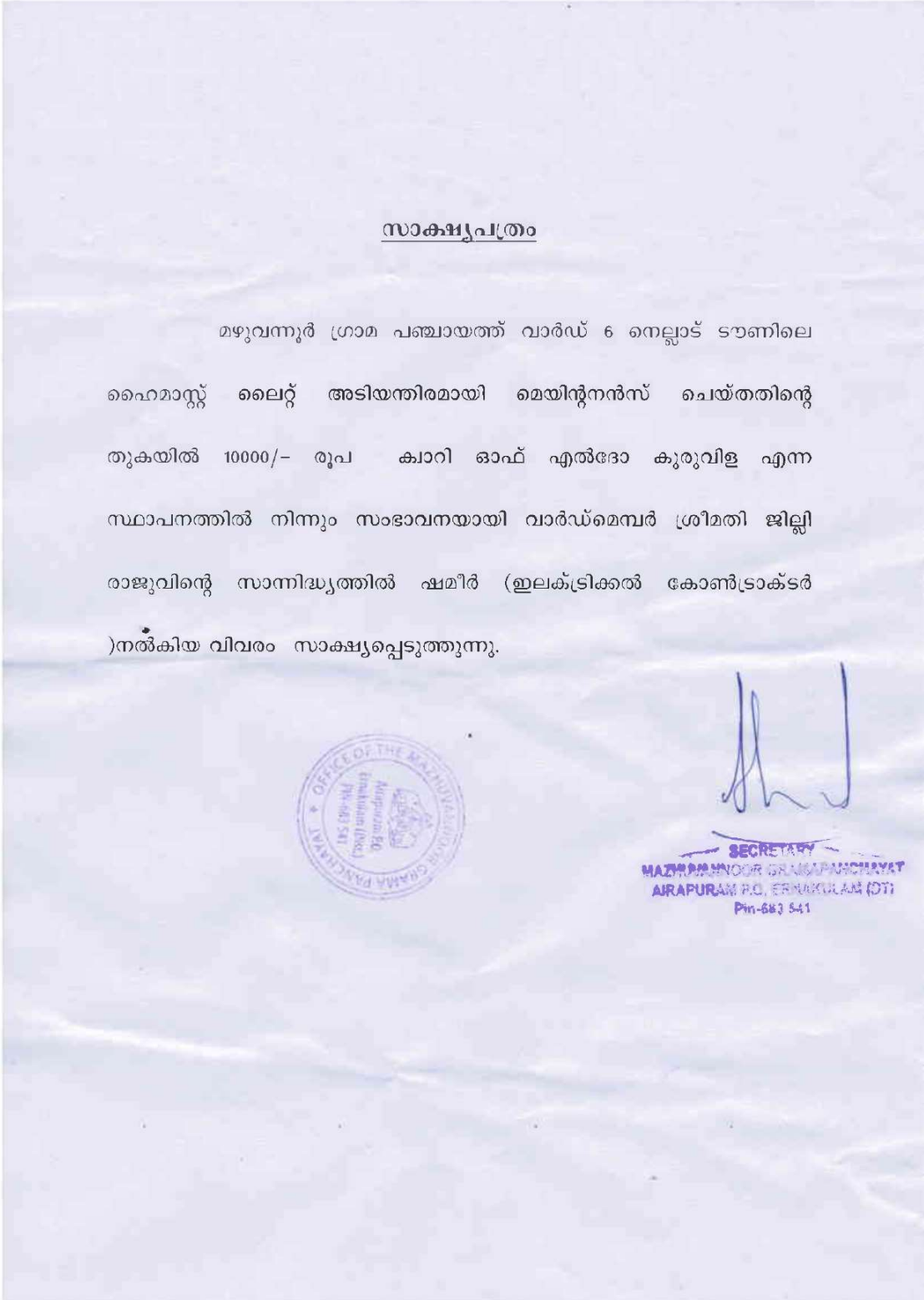
अंचल सचिव  
 खनन परीक्षा बोर्ड  
 दक्षिणी अंचल, बंगलूर  
 Zonal Secretary  
 Board of Mining Examination  
 Southern Zone, Bengaluru.

अध्यक्ष  
 खनन परीक्षा बोर्ड  
 Chairman  
 Board of Mining  
 Examinations

Signed and Sealed  
 Date **17/09/14**

Certificate of Mines mate

Annexure No. 11



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## Annexure No. 12

**TEST REPORT**

ULR No: TC129392500009443F

LRI No.: SEAL25042506A

Date: 26-04-2025

Page 1 of 1

**CUSTOMER DETAILS**

Customer Name & Address	<b>Mr. Eldho Kuruvilla</b> Thombrayil House Chelad P.O., Kothamangalam Ernakulam District.
Customer Reference	Test Request date: 23-04-2025

**SAMPLE DETAILS**

Product Category	Atmospheric Pollution	Sample Code	EN25041390
Sample Name	Ambient Air	Sample Received on	24-04-2025
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	25-04-2025
Sampled by	Lab Authorized Sampler	Test Completed on	26-04-2025

**DETAILS OF SAMPLING**

Sampling Location	Project Site	Date of Sampling	23-04-2025
Sampling Procedure	SEAL/CHL/SOP/7.3/02	Humidity	69 %

**SAMPLING SITE DETAILS**

Survey No.	284/1, 279/2-2pt, 279/2pt, 284/2, 284/2-1pt, 284/2-4pt, 284/1-3pt, 284/2-5 & 284/1-1pt		
Village	Mazhuvannoor	Taluk	Kunnathunadu
District	Ernakulam	State	Kerala

**TEST RESULTS-CHEMICAL DISCIPLINE**

SL NO	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARD
1	Particulate matter ,PM <sub>10</sub>	IS 5182 (Part 23): 2006	µg/m <sup>3</sup>	58.3	100 (Max)
2	Particulate matter ,PM <sub>2.5</sub>	IS 5182 (Part 24): 2019	µg/m <sup>3</sup>	27.6	60 (Max)
3	Sulphur dioxide as SO <sub>2</sub>	IS 5182 (Part 2): 2001	µg/m <sup>3</sup>	4.20	80 (Max)
4	Nitrogen dioxide as NO <sub>2</sub>	IS 5182 (Part 6): 2006	µg/m <sup>3</sup>	5.12	80 (Max)

Remarks:

Shency Joy  
TM-Chemical  
Checked by:



Laiju P N  
Laboratory Head  
Authorized Signatory

The results are related to the samples tested; This test report shall not be reproduced except in full, without the written approval of the laboratory. Unless requested by the customer; the samples will not be retained for more than 7 days from the date of report.

**Standards Environmental & Analytical Laboratories**

Accreditation &amp; Certification:

NABL accredited Laboratory as per ISO/IEC 17025:2017 vide Certificate No. TC-12939; ISO 45001:2018 OHSAS certified laboratory.  
Approval & Recognition: MoEF recognized Environmental Laboratory; "A" Grade Laboratory approved by KSPCB.  
Standards' Bldg. No: 338/A,B,C,D,E (Behind BPCL Petrol Pump), Edayar, Muppathadam P.O., Ernakulam Dist. - 683 110.  
Tel. 0484-2546660, 93872 72402, 90743 41443. Web: www.standardslab.in. E-mail: sealah@gmail.com

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## Annexure No. 13

**TEST REPORT**

ULR No: TC129392500009444F

LRI No.: SEAAAL25042507A	Date: 26-04-2025	Page 1 of 1
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**CUSTOMER DETAILS**

Customer Name & Address	<b>Mr. Eldho Kuruville</b> Thombrayil House Chelad P.O., Kothamangalam Ernakulam District.
Customer Reference	Test Request date: 23-04-2025

**DETAILS OF MONITORING**

Product Category	Atmospheric Pollution	Sample Code	EN25041391
Sample Name	Ambient Noise	Monitoring Commenced on	23-04-2025
Test Method	IS 9989:1981	Monitoring Completed on	24-04-2025
Monitoring Location	Project Site	Monitored by	Lab Authorized Sampler

**SAMPLING SITE DETAILS**

Survey No.	284/1, 279/2-2pt, 279/2pt, 284/2, 284/2-1pt, 284/2-4pt, 284/1-3pt, 284/2-5& 284/1-1pt		
Village	Mazhuvannoor	Taluk	Kunnathunadu
District	Ernakulam	State	Kerala

**MONITORING RESULTS - Leq**

TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	39.1	14:00	52.4	22:00	37.9
07:00	41.9	15:00	52.8	23:00	36.5
08:00	46.3	16:00	54.0	24:00	39.1
09:00	50.0	17:00	54.4	01:00	39.9
10:00	52.4	18:00	48.8	02:00	39.5
11:00	55.6	19:00	45.1	03:00	40.2
12:00	52.8	20:00	41.1	04:00	39.1
13:00	52.0	21:00	40.6	05:00	41.0

Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time	dB(A)	50.9
2	Ambient Sound Level (Leq) Night Time	dB(A)	39.5

Remarks:

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

Shency Joy  
TM-Chemical  
Checked by:



Laiju P N  
Laboratory Head  
Authorized Signatory

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Tel. 0484-2546660 93872 72402 90743 41443 Web: www.standardslab.in Email: standardslab@gmail.com

Copy of Noise

## Annexure No. 14

**TEST REPORT**

<b>ULR No: TC129392500009445F</b>		
LRI No.: SEAL25042508A	Date: 26-04-2025	Page 1 of 2

CUSTOMER DETAILS	
Customer Name & Address	<b>Mr. Eldho Kuruvilla</b> Thombrayil House Chelad P.O., Kothamangalam Ernakulam District.
Customer Reference	Test Request Date: 23-04-2025

SAMPLE DETAILS			
Product Category	Water	Sample Code	WT25040670
Sample Name	Ground Water	Sample Received on	24-04-2025
Sample Description by Customer	Open Well Water	Temperature @ Receipt	4°C
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	24-04-2025
Sample Quantity & Packing	2 L & 125 ml in a Plastic Bottle	Test Completed on	26-04-2025
Information Provided by Customer	---	Sampled by	Lab Authorized Sampler

DETAILS OF SAMPLING			
Sample Source	100 m away from the Project Site	Date of Sampling	23-04-2025
Sampling Procedure	SEAAL/QAD/SOP/7.3/01	Sample Temperature	28.2°C

SAMPLING SITE DETAILS			
Survey No.	284/1, 279/2-2pt, 279/2pt, 284/2, 284/2-1pt, 284/2-4pt, 284/1-3pt, 284/2-5& 284/1-1pt		
Village	Mazhuvannoor	Taluk	Kunnathunadu
District	Ernakulam	State	Kerala

TEST RESULTS- CHEMICAL DISCIPLINE					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012
1	Colour	IS 3025 (Part 4): 2021	Hazen	1	5 (Max)
2	Odour	IS 3025 (Part 5): 2018	---	Agreeable	Agreeable
3	Turbidity	IS 3025 (Part 10): 2023	NTU	<0.10	1.0 (Max)
4	pH @ 25°C	IS 3025 (Part 11): 2022	---	6.82	6.50-8.50

Shency Joy  
TM-Chemical  
Checked by:



Remya B  
TM-Biological  
Authorized Signatory

Laiju P N  
Laboratory Head  
Authorized Signatory

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Tel: 0484-2546660, 93872 72402, 90743 41443. Web: www.standardslab.in. E-mail: seal@standardslab.in

**TEST REPORT**

<b>ULR No: TC129392500009445F</b>		
LRI No.: SEAAL25042508A	Date: 26-04-2025	Page 2 of 2

**TEST RESULTS- CHEMICAL DISCIPLINE**

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012
5	Conductivity	IS 3025 (Part 14):2013	µS/cm	92.0	---
6	Total Dissolved Solids 180°C	IS 3025 (Part 16): 2023	mg/L	58.5	500 (Max)
7	Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part 21): 2009	mg/L	20.4	200 (Max)
8	Calcium as Ca	IS 3025 (Part 40): 1991	mg/L	5.74	75 (Max)
9	Magnesium as Mg	IS 3025 (Part 46): 2023	mg/L	1.49	30 (Max)
10	Chloride as Cl	IS 3025 (Part 32): 1988	mg/L	14.0	250 (Max)
11	Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23): 2023	mg/L	12.0	200 (Max)
12	Iron as Fe	IS 3025 (Part 53): 2003	mg/L	0.19	1 (Max)
13	Sulphate as SO <sub>4</sub>	IS 3025 (Part 24/Sec 1): 2022	mg/L	<1.00	200 (Max)

**TEST RESULTS - BIOLOGICAL DISCIPLINE**

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	<i>E.coli</i>	IS 15185 : 2016	----	Absent/100 ml	Absent/100 ml

Remarks:

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



 Shency Joy  
 TM-Chemical  
 Checked by:



 Remya B  
 TM-Biological  
 Authorized Signatory



 Laju P N  
 Laboratory Head  
 Authorized Signatory

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 Tel. 0484-2546660. 93872 72402 90743 41443 Web: www.standardlab.in Email: sealah@gmail.com

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# PLATE

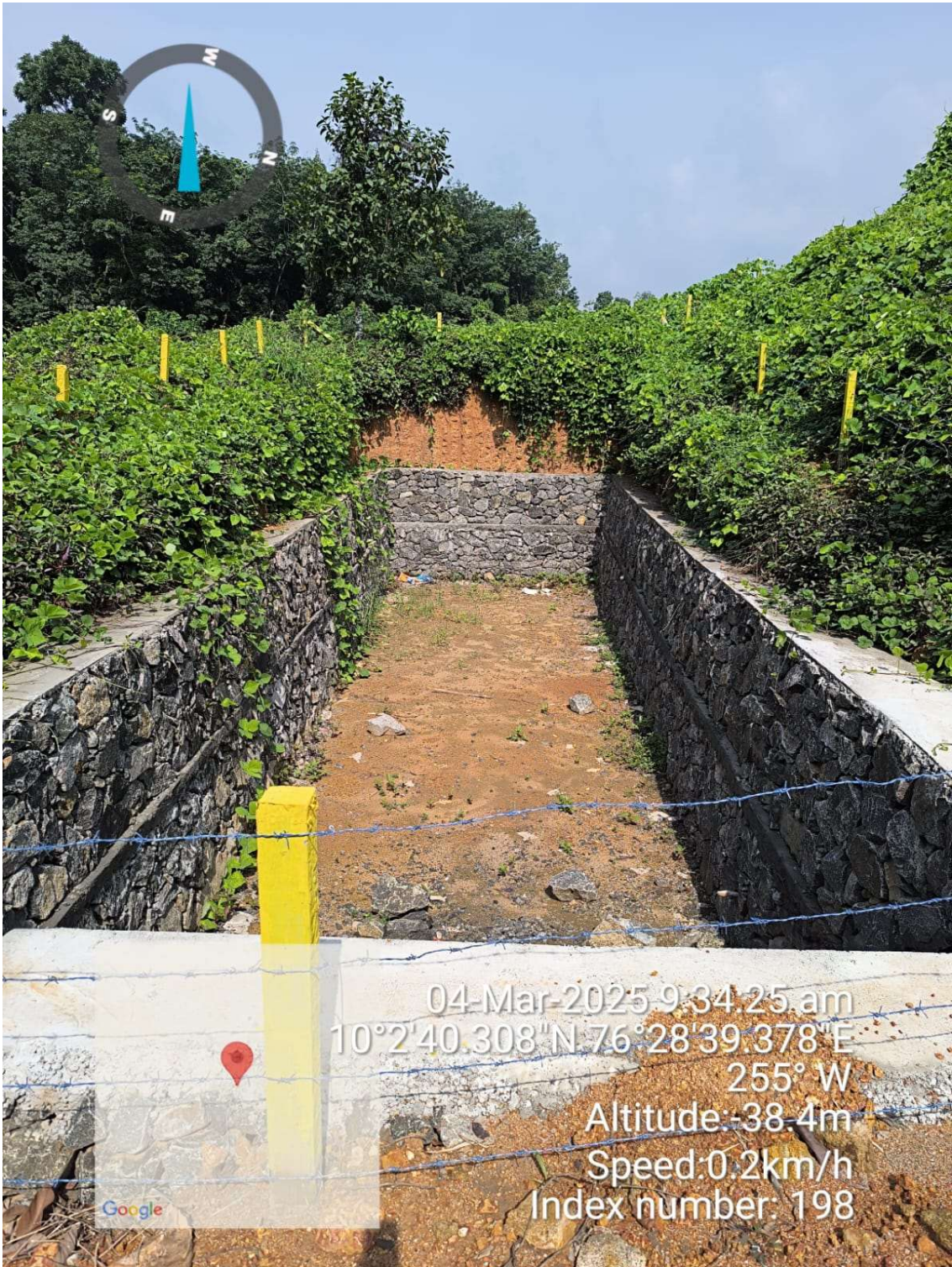
Plate No.1



Saplings planted at project stie

Plate No. 2





Drain and siltation pond

Plate No.3



EC board

Plate No. 4



Bench in mine lease area