

*COMPLIANCE REPORT FOR GRANITE  
BUILDING STONE QUARRY BY  
MR. BINOY JOSE*

SURVEY NOS. : 336/3-3, 336/3-4, 395/1  
EXTENT : 1.62HECTARES  
VILLAGE :ALAKODE  
TALUK :THODUPUZHA  
DISTRICT :IDUKKI  
STATE :KERALA

***ENVIRONMENTAL CLEARANCE NO.  
122/Q/2022 dated 01-09-2022  
(FILE NO: 1415(A)/EC2/2019/SEIAA)***

**FOR THE PERIOD FROM APRIL 2024 TO SEPTEMBER 2024**

**TABLE OF CONTENTS**

| ITEM NUMBER                          | DESCRIPTION   | PAGE NUMBER |
|--------------------------------------|---|-------------|
| I                                    | <b>About The Proponent</b>                          | 3           |
| II                                   | <b>About The Project</b>                            |             |
|                                      | Project Category                                    | 3           |
|                                      | Project Location                                    | 3           |
|                                      | Project Extent And Activity                         | 3           |
|                                      | Project Description                                 | 3           |
| III                                  | <b>Report Of Compliance</b>                         |             |
|                                      | Compliance Of General Conditions                    | 4 - 19      |
|                                      | Compliance Of Specific Conditions                   | 19 - 21     |
|                                      | <b>Figures</b>                                      |             |
|                                      | Figure 1 - Sign Boards                              | 5           |
|                                      | Figure 2 - Metallic Board with EC Details           | 6           |
|                                      | Figure 3 - Magazine Area                            | 7           |
|                                      | Figure 4 - Alarm                                    | 7           |
|                                      | Figure 5 - Access Road                              | 8           |
|                                      | Figure 6 - Rainwater Harvesting Pit                 | 9           |
|                                      | Figure 7 - OB dump area                             | 11          |
|                                      | Figure 8 - Speed Limit Boards                       | 12          |
|                                      | Figure 9 & 10 - CER activity                        | 16          |
|                                      | <b>Annexures</b>                                    |             |
|                                      | Annexure 1 - EC Order                               |             |
|                                      | Annexure 2- Affidavit                               |             |
|                                      | Annexure 3 - Explosive License                      |             |
|                                      | Annexure 4 - Panchayat License                      |             |
|                                      | Annexure 5 - Pollution Control Board Consent        |             |
|                                      | Annexure 6 - Quarry Lease                           |             |
|                                      | Annexure 7 - Advertisement Copy                     |             |
|                                      | Annexure 8 - Vibration Study                        |             |
|                                      | Annexure 9 - Laboratory Reports                     |             |
|                                      | Annexure 10 - Beneficiary letter for CER activities |             |
|                                      | Annexure 11 - Certificate of Mine Manager           |             |
| Annexure 12 - Certificate of Foreman |   |             |

# COMPLIANCE REPORT FOR GRANITE BUILDING STONE QUARRY BY MR. BINOY JOSE

## I. ABOUT THE PROPONENT

Mr. Binoy Jose, Elavumkal Veedu, Nagapuzha Post, Ernakulam is the proponent of Granite Building Stone Quarry which is situated at Survey Nos. 336/3-3, 336/3-4, 395/1 in Alakode Village, Thodupuzha Taluk, Idukki District, Kerala for an area of 1.62 Ha.

State Environment Impact Assessment Authority (SEIAA) Kerala accorded Environmental Clearance No. 122/Q/2022 dated 01-09-2022 to the building stone quarry project in Alakode Village, Thodupuzha Taluk, Idukki District, Kerala State.

## II. ABOUT THE PROJECT

### **a. Project Category:**

The project comes under the Category B, Activity 1(a)(i) of Schedule of EIA Notification 2006 and subsequent amendments.

### **b. Project Location:**

Survey Nos. 336/3-3, 336/3-4, 395/1 in Alakode Village, Thodupuzha Taluk, Idukki District, Kerala

The proposed project site falls within latitude and longitude value:

|               |                                 |
|---------------|---------------------------------|
| Latitude (N)  | 09°51'42.16" N to 09°51'48.00"N |
| Longitude (E) | 76°46'9.65"E to 76°46'14.98"E   |

### **c. Project Extent And Activity:**

The project is for quarrying of 8,29,227 MT of building stone from an area of 1.62 hectares for 5 years.

### **d. Project Description:**

Mr. Binoy Jose has obtained environmental clearance from SEIAA for 5 years from the date of execution of valid mining lease or permit from the Department of Mining and Geology for the quantity mentioned in the approved mining plan. Then EC will be extended to cover the project life of 7 years from the date of issue of original EC subject to the review by SEAC at the end of 5 years. The granite building stone quarry over an area of 1.62 hectares is located in Alakode Village, Thodupuzha Taluk, Idukki District, Kerala. The proponent has obtained approval for mining plan to produce 8,29,227 MT of building stone from an area of 1.62 hectares for five years.

# COMPLIANCE REPORT FOR GRANITE BUILDING STONE QUARRY BY MR. BINOY JOSE

## III. REPORT OF COMPLIANCE

### A. GENERAL CONDITIONS

| ITEM NO | STIPULATIONS IN EC  | STATUS OF COMPLIANCE  |
|---------|---|---|
| G-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.   | The proponent has provided notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC have been scrupulously followed. EC order and Affidavit are attached as <b>Annexure 1 and 2 respectively.</b> |
| G-2     | All the statutory clearances should be obtained, as applicable, by project proponents 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.  | All the statutory clearances are obtained. <b>Explosive license, Panchayat license, Pollution Control Board Consent and Quarrying Lease are attached as Annexure 3, 4, 5 and 6 respectively.</b>  |
| G-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 <a href="http://www.seiaakerala.in">www.seiaakerala.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. | Advertisement has been given in the newspaper within 10 days from the date of receipt of the Environmental Clearance. Newspaper images for the same are attached as <b>Annexure 7.</b>  |
| G-4     | The proponent shall send a copy of the EC to concerned Grama Panchayat/ District Panchayat/ Municipality/   | A copy of Environmental Clearance has been submitted to Alakode Grama Panchayat. Environmental  |

**COMPLIANCE REPORT FOR GRANITE BUILDING STONE QUARRY BY MR. BINOY JOSE**

|     |  |   |
|-----|--|---|
|     | 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. | Clearance has been uploaded on the website of the company. <a href="https://binoyjosemine.com">https://binoyjosemine.com</a>              |
| G-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.                                | Lease area is fenced off. Sign boards have been erected at prominent places. Photographs of sign boards are attached as <b>Figure 1</b> . |



**Figure 1: Photographs of Sign Boards**

|     |  |   |
|-----|--|---|
| G-6 | The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green | The details of Environmental Clearance are prominently displayed in a metallic board. |
|-----|--|---|

**COMPLIANCE REPORT FOR GRANITE BUILDING STONE QUARRY BY MR. BINOY JOSE**

|   |   |
|---|---|
| <p>background and yellow letters of Times New Roman font of size of not less than 40. Sign board with extent of lease area and boundaries shall be depicted at the entrance of the quarry, visible to the public.</p> | <p>Photograph of the same is attached as <b>Figure 2</b>.</p> |
|---|---|



**Figure 2: Photograph of Metallic Board Displaying EC Details**

|            |   |   |
|------------|---|---|
| <p>G-7</p> | <p>Explosives should be stored in magazines in isolated place specified and approved by Explosive Department. Mats to reduce fly rock blasts to a maximum of 10 PPV should be provided.</p> | <p>Explosives are stored in magazines in isolated place specified and approved by Explosive Department. Mats will be provided to reduce fly rock blasts. Magazine area photo is attached as Figure 3.</p> |
|------------|---|---|

COMPLIANCE REPORT FOR GRANITE BUILDING STONE QUARRY BY MR. BINOY JOSE



Figure 3: Photograph of Magazine Area

|     |   |  |
|-----|---|--|
| G-8 | Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per Stipulations of Explosive Department. | Warning alarms indicating the time of blasting is arranged as per the stipulations of Explosive Department. Photograph of alarm is attached as <b>Figure 4</b> . |
|-----|---|--|



Figure 4: Photograph of Alarm

|     |  |   |
|-----|--|---|
| G-9 | Access roads to 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. | Access roads to quarry are black topped and transportation of minerals is done in covered trucks to contain dust emissions. Photograph of access roads to quarry is attached as <b>Figure 5</b> . |
|-----|--|---|

COMPLIANCE REPORT FOR GRANITE BUILDING STONE QUARRY BY MR. BINOY JOSE

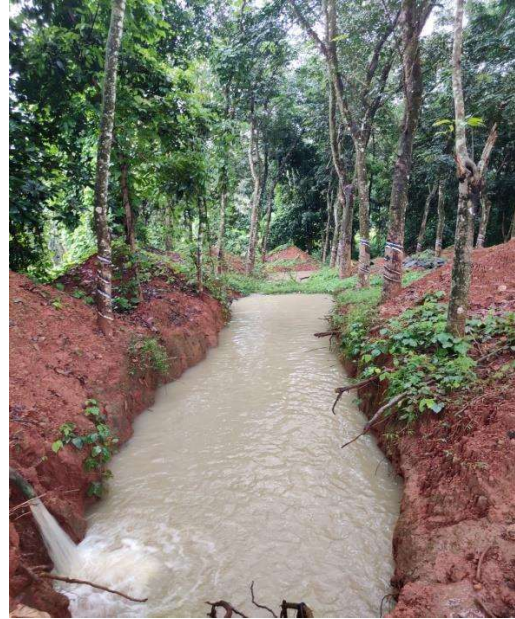


Figure 5: Photograph of Access Road to Quarry

|      |  |   |
|------|--|---|
| G-10 | A separate Environmental Management Cell 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 Panchayat 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. | A separate environmental management cell with suitable qualified personnel has been set-up under the control of proponent. The cell has representative of Biodiversity Management Committee of the Alakode Panchayat. The EMC meetings are scheduled to conduct once in six months. Now, the cell has been formulated and the activities of the cell are yet to start. The review of activities and minutes will be submitted with the next compliance onwards. |
| G-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.  | Quarrying will be carried out as per the approved mining plan with the suggestions from SEAC incorporated and following KMMC rules 2015 and the amendments.   |
| G-12 | The quarrying operation (blasting) shall be restricted between 7 AM and 5 PM   | The quarrying operation (blasting) will be restricted between 7 AM and 5 PM   |
| G-13 | Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified. Maximum possible solar   | Rainwater harvesting facility is provided. Photograph of the rainwater harvesting pit is attached as <b>Figure 6</b> .  |

COMPLIANCE REPORT FOR GRANITE BUILDING STONE QUARRY BY MR. BINOY JOSE

|  |   |   |
|--|---|---|
|  | energy generation and utilization shall be ensured as an essential part of the project. | Maximum possible solar energy generation and utilization will be explored and provided. |
|--|---|---|



**Figure 6: Photographs of Rainwater Harvesting Pit**

|      |  |  |
|------|--|--|
| G-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 groundwater table. No mining operations should be carried out at places having a slope greater than 45°. | Maximum depth of mining will be as per the mining plan and as per specific direction of SEAC after field inspection. The maximum depth of mining will not intercept local groundwater table. No mining operations will be carried out at places having a slope greater than 45°. |
| G-15 | The height of any bench shall not exceed five meters and breadth shall not be less than the height.  | The height of any bench will not exceed five meters and breadth will not be less than the height. This will be scrupulously followed.  |
| G-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.         | There are no perennial or intermittent natural water course and/or water resources within the lease area. Hence, the mining operations will not obstruct any water course or drainage pattern.   |
| G-17 | A minimum buffer distance specified as per existing rules and statutory orders shall be maintained from the boundary of  | A buffer zone of 7.5 m is maintained along the lease boundary and no specific distance   |

COMPLIANCE REPORT FOR GRANITE BUILDING STONE QUARRY BY MR. BINOY JOSE

|      |  |   |
|------|--|---|
|      | 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.   | specified by SEIAA in EC. There are no nearest forest boundaries or any other ecologically sensitive and archeologically important areas from the project area.   |
| G-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 area should be taken up beforehand. Proper upkeep and maintenance of planted seedlings shall be ensured by the project proponent. | It is proposed to plant at least 5 times of the loss of trees as compensatory plantation.   |
| G-19 | The proponent should ensure that the vegetation in the buffer is retained, maintained and strengthened with additions of native broad leaved plants.   | The vegetation in the buffer is retained, maintained and strengthened. Native broad leaved plant saplings will be selected for plantation in the buffer area.   |
| G-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 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.  | To maintain eco-restoration, periodical afforestation and maintenance of the plantation will be made. Rain harvesting and dust controlling will be done. Mining will be carried by ecofriendly method. Overburden is stacked in pre-determined site and will be used for reclamation of mined pit. Photograph of overburden stack area is attached as <b>Figure 7</b> . |

COMPLIANCE REPORT FOR GRANITE BUILDING STONE QUARRY BY MR. BINOY JOSE



**Figure 7: Photograph of Over Burden Stack Area**

|      |  |  |
|------|--|--|
| G-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. | At the time of the closure of the mine, it will be ensured that the directions contained are scrupulously followed. The mined pit will be retained as water storage area. Monitoring and management of rehabilitated areas will be continued until the vegetation becomes self-sustaining. |
| G-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.   | Control measures on noise and vibration will be implemented as per KPSCB. Quarrying activities are limited to day time.  |
| G-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.  | Periodical monitoring of the vibration will be conducted at specified locations and record will keep for inspection. Vibration study report is attached as <b>Annexure 8</b> .   |

COMPLIANCE REPORT FOR GRANITE BUILDING STONE QUARRY BY MR. BINOY JOSE

|      |   |   |
|------|---|---|
| G-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. | Speed of trucks entering or leaving the mine site will be limited to moderate speed of 10 kmph. Speed limit boards are installed near project site. Photographs of the same are attached as <b>Figure 8</b> . |
|------|---|---|



**Figure 8: Photographs of Speed Limit Sign Boards**

|      |   |  |
|------|---|--|
| G-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 standards limit indicated by CPCB/KSPCB.                      | Will be complied.  |
| G-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. | Scrupulously follows the directions contained.   |
| G-27 | Measures should be taken for maintaining noise levels below 85 dBA in the work environment.   | Measures will be taken for the control of noise levels below 85 dBA in the work environment. |

## COMPLIANCE REPORT FOR GRANITE BUILDING STONE QUARRY BY MR. BINOY JOSE

|      |   |  |
|------|---|--|
| G-28 | Project proponent should obtain necessary prior permission of the competent authorities for drawal of requisite quantity of surface water and ground water for the project.   | Scrupulously follows the directions contained.   |
| G-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 reports to SEIAA.  | There are no springs and perennial nallahs flowing in and around the mine lease area.  |
| G-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 in to the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly, particularly after monsoon. | Scrupulously follows the directions contained.   |
| G-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.   | Regular monitoring of ground water level and quality will be carried out around the mine area during mining operation. The ultimate working depth is above the ground water table. Hence, quarrying will not intersect with ground water table.  |
| G-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.  | Garland drains and silt traps will be provided in the slopes around the core area to channelize storm water. De-silting of Garland canal and silt traps are carried out on a daily basis. A labour has specifically assigned for the purpose. Thus, ensured that clear storm water is discharging from the project area. |

## COMPLIANCE REPORT FOR GRANITE BUILDING STONE QUARRY BY MR. BINOY JOSE

|      |  |  |
|------|--|--|
| G-33 | In 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.  | Noted.   |
| G-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.  | Scrupulously follows the directions contained.   |
| G-35 | The top soil, if any, shall temporarily be 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 dumpsite(s) only. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface runoff. In 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. | Topsoil will be used for the Green belt development. OB generated will be stacked separately and covered with coir mats (geo textiles) and is vegetated with locally available shrubs and grasses. The maximum height of the dumps will not exceed 8m and width 20m and overall slope of dumps will be maintained to 45°. Protective wall or gabions will be made around the dump to prevent erosion/flow of sediments during rains. The entire excavated area will be backfilled. |
| G-36 | All the mining equipment used in mining like backhoe loaders and excavators cause pollution and hence shall be serviced  | All the mining equipment will be serviced regularly & maintained for their efficient functioning and   |

## COMPLIANCE REPORT FOR GRANITE BUILDING STONE QUARRY BY MR. BINOY JOSE

|      |  |   |
|------|--|---|
|      | 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.  | for reducing pollution. Spent oil from diesel engines will be collected in drums and stored in secured manner and then disposed to KSPCB authorized recyclers.  |
| G-37 | All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution taking center. Washing of all vehicles shall be inside the lease area.  | Vehicles with valid 'PUC' certificate from authorized pollution taking center will be allowed for transportation within the mines. Washing of all vehicles will be inside the lease area.   |
| G-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.                          | Scrupulously follows the directions contained and ensured that the Ambient Air Quality parameters Conform to the norms prescribed by the Central Pollution Control Board in this regard. Monitoring reports are attached as <b>Annexure 9</b> .   |
| G-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 transfer points should be provided and properly maintained  | Water sprinklers are provided at project site, parking area, on haul roads, loading and unloading and at transfer points and properly maintained.   |
| G-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. | Activities are carried out under Corporate Environmental Responsibilities as per the activities listed in EC. Water dispenser with purifier is installed at Primary health Centre, Alakode. Rs. 1,00,000/- has been spent towards the installation of water purifier during the first half year of commencement of quarry operations. CER activities during the second half year of commencement of quarry operations are carrying out at Govt. Ayurveda Dispensary |

# COMPLIANCE REPORT FOR GRANITE BUILDING STONE QUARRY BY MR. BINOY JOSE

Alakode by constructing compound wall for dispensary, wall for well, and painting of building to facilitate the dispensary for NABH accreditation. Photographs of the same are attached as **Figure 9 and 10 respectively**. Beneficiary letter from Govt. Ayurveda Dispensary Alakode is attached as **Annexure 10**.



**Figure 9: Photograph of Water Purifier Installed at PHC, Alakode**



**Figure 10: Photograph of Govt. Ayurveda Dispensary, Alakode**

**COMPLIANCE REPORT FOR GRANITE BUILDING STONE QUARRY BY MR. BINOY JOSE**

|             |   |  |
|-------------|---|--|
| G-41        | The 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. | All the provisions of labour laws applicable from time to time to quarrying/mining operations will be implemented. The workers on the site are provided with accommodation facilities at a suitable boarding place, protective equipment such as ear muffs, helmet, etc. |
| G-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.   | Insurance protection provided to all the workers.  |
| <b>G-43</b> | Occupational health surveillance program of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. The report of health surveillance program should be included in the half yearly compliance reports.                         | Occupational health surveillance program of the workers will be done periodically to observe any contractions due to exposure to dust and corrective measures will be taken, if needed.  |
| G-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 ecofriendly manner.  | The mined pit will be utilized for water harvesting and aqua culture.  |
| G-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.   | No Government land is involved in this project.  |
| G-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.  | Noted. Occupational Health and safety measures will be followed scrupulously.  |
| G-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.  | Noted.   |
| G-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  | Half yearly reports will be submitted as stipulated.   |

**COMPLIANCE REPORT FOR GRANITE BUILDING STONE QUARRY BY MR. BINOY JOSE**

|      |   |   |
|------|---|---|
|      | <p>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 MoEF&amp;CC, 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.</p> |   |
| G-49 | <p>The project authorities should extend full cooperation to the officer(s) from the Regional Office of MOEF&amp;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.</p>   | <p>The Regional office of MOEF&amp;CC located at Bangalore will monitor compliance of the stipulated conditions. The project authorities will extend full cooperation to the officer(s) from the Regional Office by furnishing the requisite data/information/monitoring reports.</p> |
| G-50 | <p>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.</p>  | <p>Noted.</p>   |
| G-51 | <p>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.</p>   | <p>Noted.</p>   |
| G-52 | <p>The EC given will be withdrawn at any time if the area is declared high hazardous by the SDMA.</p>   | <p>Noted.</p>   |
| G-53 | <p>The Environmental Clearance will be</p>  | <p>Noted. There is no litigation</p>  |

## COMPLIANCE REPORT FOR GRANITE BUILDING STONE QUARRY BY MR. BINOY JOSE

|      |   |   |
|------|---|---|
|      | subject to the final order of the courts in any pending litigation related to the land or project, in any court of law.   | pending against the project.                                  |
| G-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.   | Noted.  |
| G-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              | Noted.  |
| G-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 environment protection. | Noted. The proponent will follow the conditions scrupulously. |
| G-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.   | Noted.  |

### **B. ADDITIONAL SPECIFIC CONDITIONS**

| ITEM NO | STIPULATIONS IN EC  | STATUS OF COMPLIANCE  |
|---------|---|---|
| 1       | The proponent shall carry out quarrying as per the approved mining plan and the proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby. | The quarrying activities are carrying out as per the approved mining plan and strictly following 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          | The copy of the lease order is submitted to SEIAA and the same is attached as <b>Annexure 6</b> .   |

**COMPLIANCE REPORT FOR GRANITE BUILDING STONE QUARRY BY MR. BINOY JOSE**

|   |  |  |
|---|--|--|
|   | commencing the mining activity.  |  |
| 3 | Measures incorporated in the CER should be implemented in total during the first two years and they should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.  | Being complied.  |
| 4 | The garland canal, silt traps, siltation pond and outflow channel should be desilted periodically to avoid obstruction to overland drainage.   | The garland canal, silt traps, siltation pond and outflow channel are desilted periodically to avoid obstruction to overland drainage. |
| 5 | The greenbelt development in the buffer should be done in the first year of the project itself and it should be nurtured and maintained in subsequent years.   | Greenbelt development plan will be executed.   |
| 6 | The overburden dump should be protected with proper gabion wall to avoid soil erosion.   | The overburden dump will be protected with proper gabion wall to avoid soil erosion.   |
| 7 | The bottom bench should not be below the general water table   | The ultimate pit depth is well above the general water table.  |
| 8 | The transportation of mined material should not be done during the peak hours in the forenoon afternoon  | The transportation of mined material is scheduled and peak hours in the forenoon afternoon are avoided.                                |
| 9 | 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 shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of | Complied.  |

**COMPLIANCE REPORT FOR GRANITE BUILDING STONE QUARRY BY MR. BINOY JOSE**

|    |  |  |
|----|--|--|
|    | the approved EMP shall be made available to the concerned Panchayat for information and implementation support.  |  |
| 10 | In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining and 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.  | NONEL (Non electrical) technology is being used. |
| 11 | 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. | Will be complied.                                |
| 12 | The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.   | Noted.   |

# **ANNEXURE 1**

**EC**

ENVIRONMENTAL  
CLEARANCE

PARIVESH

(Pro-Active and Responsive Facilitation by Interactive,  
and Virtuous Environmental Single-Window Hub)



Government of India  
Ministry of Environment, Forest and Climate Change  
(Issued by the State Environment Impact Assessment  
Authority(SEIAA), Kerala)

To,

The Owner  
HARITHA CONSULTANTS  
Elavumkal Veedu, Nagapuzha Post, Ernakulam District -685588

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

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/276440/2022 dated 04 Jun 2022. The particulars of the environmental clearance granted to the project are as below.

|  |   |
|--|---|
| 1. EC Identification No.                   | EC22B001KL147310                                |
| 2. File No.                                | 1415(A)/EC2/2019/SEIAA                          |
| 3. Project Type                            | New   |
| 4. Category                                | B2  |
| 5. Project/Activity including Schedule No. | 1(a) Mining of minerals                         |
| 6. Name of Project                         | Proposed building stone quarry of Mr Binoy Jose |
| 7. Name of Company/Organization            | HARITHA CONSULTANTS                             |
| 8. Location of Project                     | Kerala  |
| 9. TOR Date                                | N/A   |

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 01/09/2022

(e-signed)  
Dr. Venu V IAS  
Member Secretary  
SEIAA - (Kerala)

*Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.*

*This is a computer generated cover page.*



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

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

**Sub: SEIAA - Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Binoy Jose, Elavumkal Veedu, Nagapuzha Post, Ernakulam - Granted – Orders issued.**

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

**Proposal No. SIA/KL/MIN/276440/2022**

**File No. 1415(A)/EC2/2019/SEIAA**

- Ref: 1. Application from Sri. Binoy Jose received on 22.07.2019.  
2. Minutes of the 127<sup>th</sup> SEAC meeting held on 28<sup>th</sup> to 30<sup>th</sup> April, 2022.  
3. Minutes of the 129<sup>th</sup> SEAC meeting held on 8<sup>th</sup> to 10<sup>th</sup> June, 2022.  
4. Minutes of the 116<sup>th</sup> meeting of SEIAA held 29<sup>th</sup> & 30<sup>th</sup> July 2022.  
5. G.O(Rt.) No.29/2019/Env dt.12.04.2019

### ENVIRONMENTAL CLEARANCE NO.122/Q/2022

Sri. Binoy Jose, Elavumkal Veedu, Nagapuzha Post, Ernakulam – 686 668, submitted an application for Environmental Clearance *via* PARIVESH on 04/06/2022 (offline application on 22.07.2019) for the Granite Building Stone Quarry Project for an area of 1.6200 Ha. in Sy. Nos. 336/3-3, 336/3-4, 395/1 of Alakode Village, Thodupuzha Taluk, Idukki. The project details are as follows:

| SL. No. | Particulars   | Details   |
|---------|---|---|
| 1       | Name of the Project   | Granite Building Stone Quarry Project of Sri. Binoy Jose  |
| 2       | Proposed Activity   | Mining of Granite Building Stone  |
| 3       | Name of the Sector & Schedule No. (in the EIA Notification, 2006) | Non Coal mining,<br>Activity 1(a), Category B2  |
| 4       | Name & Address of the Project Proponent                           | Sri. Binoy Jose,<br>Elavumkal Veedu,<br>Nagapuzha P.O.,<br>Ernakulam,<br>Kerala- 686 668                            |
| 5       | Project Location  |   |
|         | a) Survey Nos:  | 336/3-3, 336/3-4, 395/1   |
|         | b) Revenue Village & Panchayat                                    | Alakode   |
|         | c) Taluk  | Thodupuzha  |
|         | d) District   | Idukki  |
| 6       | Geo Co-ordinates  | Latitude 9°51'42.16"N to 9°51'48.00"N<br>Longitude 76°46'9.65"E to 76°46'14.98"E                                    |
| 7       | Extent (in Acre/Hectare)  | 1.6200 Ha.  |
| 8       | Project Cost  | ₹1,15,40,000/-  |
| 9       | Production Details  | 829227MT  |
| 10      | Water Requirement   | 17 KLD (2KLD for Domestic purpose; 12KLD for Dust Suppression / Water sprinkling; 3KLD for Green belt / Plantation) |
| 11      | Power Source  | 75 kW (Diesel Engine)<br>Domestic consumption (KSEB)  |
| 12      | Date of Field Inspection  | 8-12-2019   |

### CER Details

| Year wise                               | Particulars  | Amount                  |
|---|--|-------------------------|
| First year                              | Upgradation of Computer Lab  | Rs. 1,00,000 /-         |
|   | Provision of Water dispenser with purifier                           | Rs. 1,00,000 /-         |
| Second year                             | Shelves, Locker Facilities and Racks for keeping equipments          | Rs. 1,00,000 /-         |
|   | Revamping of the existing ETP of Chilavu Ayurvedic Dispensary        | Rs. 2,00,000/-          |
| 3 <sup>rd</sup> to 5 <sup>th</sup> Year | Classroom 1 will be done   | Rs. 1,00,000/-          |
|   | Will provide Solar LED Street Lights                                 | Rs. 1,00,000/-          |
|   | Renovation of houses in the Marampera Palakkat Colony (3 Family)     | Rs.3,00,000/-           |
|   | Classroom 2 will be done   | Rs. 1,00,000/-          |
|   | Will provide water purifier of RO/ UV/ UF technology for 5 Anganwadi | Rs. 2,00,000/-          |
| <b>Total</b>                            |  | <b>Rs. 13,00,000 /-</b> |

2. In the 127<sup>th</sup> SEAC meeting held on 28<sup>th</sup> to 30<sup>th</sup> April, 2022, the Committee verified the documents submitted by the proponent and are found satisfactory. The Committee also discussed the field inspection report and the slope stability mitigation study. Based on these, Committee recommended EC with a Project Life of 7 years subject to certain Specific Conditions in addition to the General Condition.

3. On receipt of the proposal (No. SIA/KL/MIN/276440/2022) via PARIVESH as per O.M. No. IA3-19/95/2021-IA-III dated 06-10-2021 the 129<sup>th</sup> SEAC meeting held on 8<sup>th</sup> to 10<sup>th</sup> June, 2022, decided to adhere to the decision No. 127.07 taken in its 127<sup>th</sup> meeting.

4. In the 116<sup>th</sup> SEIAA Meeting held on 29<sup>th</sup> & 30<sup>th</sup> July 2022, the Authority decided to issue EC initially for a period of 5 (five) years for the quantity mentioned in the approved Mining Plan and then to extend the EC period to cover the Project Life of 7 years, from the date of issuance of original EC, subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any EC conditions and thereby caused any damage to the environment in the project region by violating EC conditions.

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

- 1) *The proponent shall carry out quarrying as per the approved Mining Plan and the 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) *Measures incorporated in the CER should be implemented in total during the first two years and they should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.*
- 4) *The garland canal, silt traps, siltation pond and outflow channel should be desilted periodically to avoid obstruction to overland drainage.*
- 5) *The Green belt development in the buffer should be done in the first year of the project itself and it should be nurtured and maintained in subsequent years*
- 6) *The overburden dump should be protected with proper gabion wall to avoid soil erosion.*
- 7) *The bottom bench should not be below the general water table.*
- 8) *The transportation of mined material should not be done during the peak hours in the forenoon and afternoon.*
- 9) *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering*

*the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.*

*10) 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.*

*11) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th 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.*

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

**5. Environmental Clearance as per the EIA Notification, 2006 is hereby accorded for the Granite Building Stone Quarry Project of Sri. Binoy Jose, Elavumkal Veedu, Nagapuzha Post, Ernakulam – 686 668, for an area of 1.6200 Ha., in Survey Nos. 336/3-3, 336/3-4 & 395/1 of Alakode Village, Thodupuzha Taluk, Idukki District, Kerala, initially for a period of 5 (five) years from the date of execution of valid mining lease/permit from the Department of Mining and Geology, as per SO 1807(E) dated 12.04.2022 of MoEF & CC, for the quantity mentioned in the approved Mining Plan, and then to be extended to cover**

the Project Life of 7 years, from the date of issuance of original EC, subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any EC conditions and thereby caused any damage to the environment in the project region by violating EC conditions, subject to the Specific Conditions in Para 4 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 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.

6. 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 proponent, as if incorporated herein.

7. Validity of the Environmental Clearance will be initially for the period of **Five (5) years** from the date of execution of valid mine lease/permit 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 extend to cover project life of 7 years as stipulated in Para (5) above.

8. Compliance of 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, Idukki.

9. The Half Yearly Compliance Report (HYCRs) with its contents, covering letter, compliance report and environmental monitoring data have to be uploaded in the PARIVESH portal and the website of the project proponent. The HYCR with the name of the project, EC No and date & the period of submission should be sent to the Regional Office of MoEF & CC & to SEIAA by email only at email ID [rosz.bng-mefcc@gov.in](mailto:rosz.bng-mefcc@gov.in) & [seacsejaakerala@gmail.com](mailto:seacsejaakerala@gmail.com), respectively. Hardcopy of HYCRs shall not be acceptable.

10. The given address for correspondence with the authorised signatory of the project is Sri. Binoy Jose, Elavumkal Veedu, Nagapuzha Post, Ernakulam – 686 668.

### 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 news papers 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 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 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  $45^{\circ}$ . 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 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  $PM_{10}$  and  $PM_{2.5}$ . 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.
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. Binoy Jose,  
Elavumkal Veedu,  
Nagapuzha Post,  
Ernakulam – 686 668

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- 695001.
4. The District Collector, Idukki.
5. The Director, Mining & Geology, Thiruvananthapuram -4.
6. The Member Secretary, Kerala State Pollution Control Board.
7. The District Geologist, Idukki.
8. The Tahsildhar, Thodupuzha Taluk, Idukki District.
9. The Secretary, Alakode Grama Panchayath, Thodupuzha Taluk, Idukki.
10. The Chairman, SEIAA.
11. Website.
12. S/f
13. O/c

**Validity unknown**

Digitally signed by **Dr. Venu V IAS**  
Member Secretary  
Date: 9/1/2022 4:55:58 PM

**ANNEXURE 2**  
**AFFIDAVIT**



കേരളം കേരल KERALA

16AA 557146

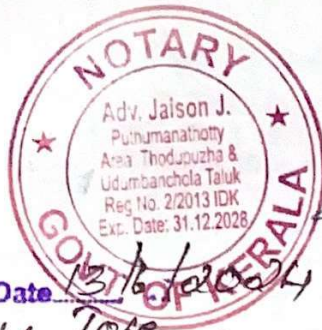
**AFFIDAVIT**

I, **BINOY JOSE** S/o Jose, (Holder of Aadhaar card No. 2765 2233 0829) residing at Elavumkal House, Nakapuzha PO, Ernakulam District, Kerala owner of the quarry does here by affirm and confirm as follows.

1. That my quarry project is situated at Survey Nos : 336/3-3, 336/3-4, 395/1 in Alakode Village, Thodupuzha Taluk, Idukki District, Kerala State.

**BINOY JOSE**

Contd.....2



No. 8470 Date 13/6/2024  
Sold to Binoj Jose  
Elavumkal (P.O.)  
Nakapuzha

136/24  
Arav  
M.ARUN  
For M.K. Murali  
Stamp Vendor  
Thodupuzha





കേരളം കേരल KERALA

-2-

16AA 557147

2. That, the eco restoration including the mine closure plan will be done at my expenses.

**Verification**

Verified that my above statements are true to the best of my knowledge and no materials have been concealed therein.

Place: Thodupuzha

Date: 13-06-2024

**Deponent : Mr. BINOY JOSE**

Solemnly affirmed and signed  
before me by the deponent  
known to me on this the 13<sup>th</sup>  
day of JUNE 2024  
at my office at Thodupuzha

13/6/24



*Acc. Jaision J. Puthumanathotty*

**JAISON J. PUTHUMANATHOTTY  
ADVOCATE & NOTARY  
THODUPUZHA, IDUKKI DIST.  
KERALA STATE, INDIA-685585  
PH : 9947864336**

Date 13/6/2024

Sold to Binooy Jose  
Elavankal co  
Narayanapuram

*MARUN*  
**MARUN  
For M.K. Murali  
Stamp Vendor  
Thodupuzha**



10 JUN 2024

**ANNEXURE 3**  
**EXPLOSIVE LICENSE**



भारत सरकार | Government of India

वाणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसी) | Petroleum & Explosives Safety Organisation (PESO)

पूर्व नाम- विस्फोटक विभाग | Formerly - Department of Explosives

केन्द्रीय भवन, ब्लॉक सी-2, तीसरी मंजिल | Kendriya Bhavan, Block C-2, 3rd Floor

CSEZ पी ओ कक्कनाड कोच्चि | CSEZ PO Kakkanaad Dist. Ernakulam Ernakulam 682037

फोन (Phone) - 2427286 | फैक्स (Fax) - 2427276

ई-मेल (Email) - dyceernamakulam@explosives.gov.in

संख्या (No.) E/SE/KL/22/112(E96543)

दिनांक (Date) 22/11/2022

सेवा में | To,

Binoy Jose,  
Elavumkal (H), Nagapuzha P.O, Ernakulam, Town Village - Ernakulam  
District-ERNAKULAM, State-Kerala, Pmcode - 686668

विषय | Survey No.395/7, Block 32,, ग्राम Alakkodu village, Thodupuzha Taluk, जिला IDUKKI, राज्य Kerala में विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुज्ञप्ति सं E/SE/KL/22/112(E96543) के नवीनीकरण संदर्भ में।

Subject: Possession for Use of of Explosives from magazine situated at Survey No. 395/7, Block 32., Alakkodu village, Thodupuzha Taluk, Dist IDUKKI, Kerala -Licence No. E/SE/KL/22/112(E96543) granted in Form LE-3 of Explosives Rules, 2008 - Renewal regarding

महोदय | Sir,

आपका उपर्युक्त विषय पर पत्र संख्या 72512 दिनांक 17/11/2022 का संदर्भ ग्रहण करें। विस्फोटक नियम, 2008 के अंतर्गत प्ररूप LE-3 में जारी अनुज्ञप्ति दिनांक 31/3/2027 तक नवीनीकृत कर इस पत्र के साथ भेजी जा रही है।

Reference to your letter No. 72512 dated 17/11/2022, the subject licence duly renewed upto 31/3/2027 and issued in Form LE-3 of Explosives Rules, 2008 is forwarded herewith

Conditions:

1) All records of use of explosives in RE-3, RE-5, RE-7 RE-13 shall be maintained. Daily pass for use of explosives (RE-13) shall be generated online. Approved blaster shall be appointed for the quarry blasting operation. Explosives and detonators shall not be transported in same van and to be transported separately from magazine to blasting site. Van shall not be used for storage of explosives at site. Explosive van is permitted for own use only.

अनुज्ञप्ति के आगामी नवीकरण हेतु कृपया निम्नलिखित दस्तावेज दिनांक 31/03/2027 से पहले इस कार्यालय को भेजे जाएं।

For further renewal of licence, please submit the following documents so as to reach this office on or before 31/3/2027

- प्ररूप आरई-1 में विधिवत पूर्ण एवं हस्ताक्षरित आवेदन।  
Application in Form RE-1 duly filled in and signed
- एक से पाँच वर्ष के अनुज्ञप्ति शुल्को का, विस्फोटक नियम, 2008 के तहत ऑनलाइन आवेदन पोर्टल पर उपलब्ध ई-भुगतान सुविधा के माध्यम से लाइसेंस शुल्क ऑनलाइन जमा किया जाना है।  
Licence fees renewable for one to five years, to be submitted online through e-payment facility available on online application portal under the Explosives Rules, 2008
- अनुमोदित प्लान के साथ मूल अनुज्ञप्ति।  
Original licence with approved plan
- कृपया इस संबंध में विस्फोटक नियम, 2008 के नियम 112 का भी संदर्भ ग्रहण करें।  
In this connection, please also refer to Rule 112 of Explosives Rules, 2008
- विस्फोटकों के क्रय हेतु आरई-11 में मांगपत्र (इंडेंट) आपूर्तिकर्ता को दिया जाए और उसी की एक प्रति इस कार्यालय को भेजी जाए (अतिशबाजी गोदाम के लिए लागू नहीं)।  
Indent for purchase of explosives shall be placed in RE-11 with the supplier and copy of the same shall be sent to this office. (Not applicable for fireworks store house)
- कृपया विस्फोटकों की त्रैमासिक विवरणी हर तिमाही के अंत में आरई-7 में प्रस्तुत की जाए। विवरणी इस कार्यालय के कार्यालय में आगामी तिमाही के 10 तारीख से पहले पहुंच जानी चाहिए (अतिशबाजी गोदाम के लिए लागू नहीं)। Please submit quarterly returns of explosives in RE-7 at the end of every quarter so as to reach this office by 10th of the succeeding quarter. (Not applicable for fireworks store house)
- सभी ब्लास्टिंग आपरेशन एक सक्षम द्वारा की जाएगी जो उपरोक्त नियमों के तहत एक वैध शॉट फायर प्रमाणपत्र धारक हो। हालांकि, खान अधिनियम 1952 के अधीन आने वाले खानों में ब्लास्टिंग आपरेशन करने वाले ब्लास्टर की योग्यता उसी अधिनियम से निर्धारित हो।  
All blasting operations shall be carried out by a competent person holding a valid shot firer's permit granted under above rules. However, blasting operations in mines coming under the purview of the Mines Act 1952, the blaster shall have qualifications prescribed in the regulations framed under the said Act.

भवदीय | Yours faithfully

(एस. सरवनन | S Saravanan)

उप विस्फोटक नियंत्रक | Dy. Controller of Explosives

कृते उप मुख्य विस्फोटक नियंत्रक | For Dy. Chief Controller of Explosives

कोच्चि | Ernakulam

प्रतिलिपि प्रेषित | Copy Forwarded to

1. जिला मजिस्ट्रेट (District Magistrate), IDUKKI (Kerala)- सूचना के लिए (for information)

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

कोच्चि | Ernakulam

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क आदि के लिए हमारी वेबसाइट <http://peso.gov.in> देखें)

(For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)

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



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

संख्या (No.): E/SE/KL/22/112(E96543)

दिनांक (Date): 13/09/2022

सेवा में | To,

Binoy Jose,  
Elavumkal (H), Nagapuzha P.O, Ernakulam, Town/Village - Ernakulam  
District-ERNAKULAM, State-Kerala, Pincode - 686668

विषय: Survey No.395/7, Block 32, ग्राम Alakkodu village, Thodupuzha Taluk, जिला IDUKKI, राज्य Kerala में मेसर्स Binoy Jose द्वारा विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुज्ञप्ति सं E/SE/KL/22/112(E96543) के संशोधन संदर्भ में।  
( विस्फोटक की मात्रा / मासिक खरीद सीमा में परिवर्तन अरेखण / सुविधाएं / परिसर में परिवर्तन )  
Subject: Possession for Use of Explosives from magazine situated at Survey No.:395/7, Block 32., Alakkodu village, Thodupuzha Taluk, Dist. IDUKKI, Kerala -Licence No.: E/SE/KL/22/112(E96543) granted in Form LE-3 of Explosives Rules, 2008 -  
( Amendment of Quantity of Explosives/Monthly Purchase Limit Amendment in Drawings/Facilities/Premises).

महोदय | Sir,

आपका उपर्युक्त विषय पर पत्र संख्या Nil दिनांक 13/09/2022 का संदर्भ ग्रहण करें।  
Please refer to your letter no. Nil dated 13/09/2022.

अनुज्ञप्ति संख्या E/SE/KL/22/112(E96543) (1.) INTIMATION REGARDING QUARRYING OPERATIONS AT BLOCK NO 32, R SY.NO.336/3-3, 336/3-4, 395/1 OF ALAKODE VILLAGE, THODUPUZHA TALUK, IDUKKI DISTRICT, VIDE LETTER OF INDENT NO.11632/M3/2018 DATED 27/11/2018 OF THE DIRECTORATE OF MINING & GEOLOGY, THIRUVANANTHURAM, EC NO. 122/Q/2022/EC22B001KL147310 DATED 01/09/2022 OF SEIAA IS HEREBY ACKNOWLEDGED AND THE ONLINE OFFICE RECORD IS UPDATED. (2.) NO USE OF EXPLOSIVES IS PERMITTED UNLESS VALID QUARRY PERMIT IS OBTAINED AND COPY SUBMITTED TO THIS OFFICE. LOCAL STATE GOVERNMENT AUTHORITIES APPROVAL/ENVIRONMENTAL CLEARANCE AS APPLICABLE AND RENEWED FROM TIME TO TIME SHALL BE IN POSSESSION (3.) LICENSED EXPLOSIVES VAN SHALL BE USED FOR TRANSPORTATION OF EXPLOSIVES FROM MAGAZINE TO BLASTING SITE. (4.) EXPLOSIVES AND DETONATORS SHALL NOT BE TRANSPORTED IN THE SAME VAN AND TO BE TRANSPORTED SEPARATELY FROM MAGAZINE TO THE BLASTING SITE. (5.) VAN SHALL NOT BE USED FOR STORAGE OF EXPLOSIVES AT SITE. (6.) IF ANY CHANGE OF QUARRY OR ADDITIONAL QUARRY IS INVOLVED, NECESSARY PRIOR APPROVAL/ENDORSEMENT SHALL BE OBTAINED FROM THE LICENSING AUTHORITY. (7.) OPENING OF QUARRY SHALL BE INFORMED TO THE DGMS AND BLASTING OPERATIONS SHALL BE CONDUCTED AS PER MINES ACT. (8.) APPROVED BLASTER SHALL BE APPOINTED IN THE QUARRY FOR BLASTING. (9.) ALL RECORDS OF USE OF EXPLOSIVES IN RE-3, RE-5, RE-7, RE-13 SHALL BE MAINTAINED. (10.) DAILY PASS FOR USE OF EXPLOSIVES (RE-13) SHALL BE GENERATED ONLINE. (11.) NECESSARY APPROVALS/LICENCES FROM OTHER DEPARTMENTS SHALL BE OBTAINED AS PER THE RULES के संदर्भ में यथा संशोधित कर भेजी जा रही है।

The Licence No.: E/SE/KL/22/112(E96543) is forwarded herewith duly amended in respect of followings :

(1.) INTIMATION REGARDING QUARRYING OPERATIONS AT BLOCK NO 32, R SY.NO.336/3-3, 336/3-4, 395/1 OF ALAKODE VILLAGE, THODUPUZHA TALUK, IDUKKI DISTRICT, VIDE LETTER OF INDENT NO.11632/M3/2018 DATED 27/11/2018 OF THE DIRECTORATE OF MINING & GEOLOGY, THIRUVANANTHURAM, EC NO. 122/Q/2022/EC22B001KL147310 DATED 01/09/2022 OF SEIAA IS HEREBY ACKNOWLEDGED AND THE ONLINE OFFICE RECORD IS UPDATED. (2.) NO USE OF EXPLOSIVES IS PERMITTED UNLESS VALID QUARRY PERMIT IS OBTAINED AND COPY SUBMITTED TO THIS OFFICE. LOCAL STATE GOVERNMENT AUTHORITIES APPROVAL/ENVIRONMENTAL CLEARANCE AS APPLICABLE AND RENEWED FROM TIME TO TIME SHALL BE IN POSSESSION (3.) LICENSED EXPLOSIVES VAN SHALL BE USED FOR TRANSPORTATION OF EXPLOSIVES FROM MAGAZINE TO BLASTING SITE. (4.) EXPLOSIVES AND DETONATORS SHALL NOT BE TRANSPORTED IN THE SAME VAN AND TO BE TRANSPORTED SEPARATELY FROM MAGAZINE TO THE BLASTING SITE. (5.) VAN SHALL NOT BE USED FOR STORAGE OF EXPLOSIVES AT SITE. (6.) IF ANY CHANGE OF QUARRY OR ADDITIONAL QUARRY IS INVOLVED, NECESSARY PRIOR APPROVAL/ENDORSEMENT SHALL BE OBTAINED FROM THE LICENSING AUTHORITY (7.) OPENING OF QUARRY SHALL BE INFORMED TO THE DGMS AND BLASTING OPERATIONS SHALL BE CONDUCTED AS PER MINES ACT. (8.) APPROVED BLASTER SHALL BE APPOINTED IN THE QUARRY FOR BLASTING. (9.) ALL RECORDS OF USE OF EXPLOSIVES IN RE-3, RE-5, RE-7, RE-13 SHALL BE MAINTAINED. (10.) DAILY PASS FOR USE OF EXPLOSIVES (RE-13) SHALL BE GENERATED ONLINE. (11.) NECESSARY APPROVALS/LICENCES FROM OTHER DEPARTMENTS SHALL BE OBTAINED AS PER THE RULES.

किसी 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<br>No | विस्फोटक<br>Explosive(s)            | वर्ग<br>Class | प्रभाग<br>Div | उप-प्रभाग<br>Sub Div | क्षमता<br>Capacity | इकाई<br>Unit |
|--------------|-------------------------------------|---------------|---------------|----------------------|--------------------|--------------|
| 1            | Nitrate Mixture                     | 2             | 0             | 0                    | 100                | Kg.          |
| 2            | Safety Fuse                         | 6             | 1             | 0                    | 2000               | Mtrs         |
| 3            | Electric and/or Ordinary Detonators | 6             | 3             | 0                    | 2000               | Nos.         |

किसी 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 2023 तक प्रवृत्त रहेगी।  
This Licence shall remain valid till 31st day of March 2023.

अनुज्ञप्ति के आगामी नवीकरण हेतु कृपया विस्फोटक नियम, 2008 के नियम 112 के अंतर्गत प्रक्रिया का पालन करें। कृपया पावती 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

(पी.के.राणा | Dr. P. K. Rana)

उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives

कोच्ची | Ernakulam

प्रतिलिपि प्रेषित | Copy Forwarded to:

1. District Magistrate, IDUKKI, Kerala with reference to his Noe No: E2-4458/2016/KDis Dated: 22/07/2016
2. Superintendent of Police, IDUKKI, Kerala.

अनुज्ञापि प्ररूप एल. ई.-3 | LICENCE FORM LE-3

(विस्फोटक नियम, 2008 की अनुसूची 4 के भाग 1 के अनुच्छेद 3(क) से (घ) देखिए।)  
(See article 3(a) to (d) of Part I 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/SE/KL/22/112(E96543)

वार्षिक फीस रुपए (Annual Fee Rs): 2400/-

1. Licence is hereby granted to

**Binoy Jose (अधिभोगी / Occupier : Binoy Jose)**, Elavumkal (H), Nagapuzha P.O, Ernakulam, Town/Village - Ernakulam, District-ERNAKULAM, State-Kerala, Pincode - 686668

Space for photograph of the licensee or occupier with signature

को अनुज्ञापि अनुदत्त की जाती है।

2. अनुज्ञापिधारी की प्रारिथिति | Status of licensee : **Individual**

3. अनुज्ञापि निम्नलिखित प्रयोजनों के लिए विधिमाम्य है।  
Licence is valid only for the following purpose.

possess for use of **Nitrate Mixture, Safety Fuse, Electric and/or Ordinary Detonators, -** के उपयोग के लिए

4. 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. (Sr. No.) | नाम और विवरण (Name and Description) | वर्ग और प्रभाग (Class & Division) | उप-प्रभाग (Sub-division) | मात्रा किसी एक समय में (Quantity at any one time) |
|--------------------|-------------------------------------|-----------------------------------|--------------------------|---|
| 1.                 | Nitrate Mixture                     | 2,0                               | 0                        | 100 Kg.   |
| 2.                 | Safety Fuse                         | 6,1                               | 0                        | 2000 Mtrs   |
| 3.                 | Electric and/or Ordinary Detonators | 6,3                               | 0                        | 2000 Nos.   |

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

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

20 times as above.

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञापि परिसर की पुष्टि होती है।  
The licensed premises shall conform to the following drawing(s) :

रेखाचित्र क्र. (Drawing No.) E/SE/KL/22/112(E96543)  
दिनांक (Dated) 13/09/2022

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

Survey No. 395/7, Block 32, , ग्राम (Town/Village) : **Alakkodu village, Thodupuzha Taluk**  
पुलिस थाना (Police Station) : **Thodupuzha**

|                 |                   |                 |               |                  |               |
|-----------------|-------------------|-----------------|---------------|------------------|---------------|
| जिला (District) | <b>IDUKKI</b>     | राज्य (State)   | <b>Kerala</b> | पिनकोड (Pincode) | <b>686668</b> |
| दूरभाष (Phone)  | <b>9048365482</b> | ई. मेल (E-Mail) |               | फैक्स (Fax)      |               |

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

**Two portable magazines of D type (Sl. No. 778) and E type (Sl. No. 1013) fabricatead by Thekkans Engineering & Fabrication works, Ernakulam.**

8. अनुज्ञापि समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबंधों के अधीन रहते हुए अनुदत्त की जाती है।  
The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures.

- उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सन्निर्माण संबंधी और अन्य विवरण दर्शित करते हुए।)  
Drawings (showing site, constructional and other details) as stated in serial No. 5 above.
- 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 2017 तक विधिमाम्य रहेगी। This licence shall remain valid till 31st day of March 2017.

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 अधिक्रमण करने या यदि अनुज्ञापि परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंहत की जा सकती है, जहां वह लागू हो।  
This licence is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under Set VIII, wherever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and Annexure attached hereto.

तारीख | The Date - 27/09/2016

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

**Amendments :**

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 15/02/2017
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 17/02/2017
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 26/04/2017
- Amendment in Drawings/Facilities/Premises dated : 13/09/2022
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 13/09/2022

नवीनीकरण के पृष्ठांकन के लिए स्थान  
Space for Endorsement of Renewal

| नवीकरण की तारीख<br>Date of Renewal | समाप्ति की तारीख<br>Date of Expiry | अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प<br>Signature of licensing authority and stamp |
|------------------------------------|------------------------------------|--|
| 29/11/2018                         | 31/03/2023                         | Sd/-<br>Dy. Chief Controller of Explosives, Ernakulam                                      |

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

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

Digitally signed by Dr. P. K. RANA  
Reason: Licence No. : E/SE/KL/22/112  
Location Ernakulam [E96543]  
Date 2022.09.13 05:25:28 +05:30

**Form DE-2**  
**(See rule 113 of the Explosives Rules, 2008)**  
**(Distance Form to be attached to the licence)**

Safety distances required to be kept clear around magazine for high explosives or fire works or factory licence number E/SE/KL/22/112(E96543) in form LE-3 granted to Binoy Jose, Elavunmkal (H), Nagapuzha P.O, Ernakulam, Kerala-686668 .

| Type of Structure(s)  | Safety distances meters |    |
|---|-------------------------|----|
|   | M                       | UM |
| <b>Inside Safety Distances(ISD)</b>   |                         |    |
| 1 Room or Workshop used in Connection with the Magazine   | 11                      | 17 |
| 2 Any other Explosives Magazine or store House or Factory of the Applicant  |                         |    |
| 3 Magazine Office   |                         |    |
| <b>Middle Safety Distances(MSD)</b>   |                         |    |
| 4 Magazine Keeper's or Chowkidar's Dwelling house   |                         |    |
| 5 Railway including Minerals and Private Railways   |                         |    |
| 6 Canal (in active use) or other navigable water  |                         |    |
| 7 Dock or Pier or Jetty   |                         |    |
| 8 Public Highway or Public Road   |                         | 33 |
| 9 Private Road which is PRINCIPAL means of access to a Temple, Mosque, Church, Gurudwara or other places of worships, Hospital, College, School or Factory            |                         |    |
| 10 River Embankment or Sea Embankment or Public Well  |                         |    |
| 11 Reservoir or Bounded tank/rope way   |                         |    |
| 12 Windmillor or Solar panel for Power Generation   |                         |    |
| <b>Outside Safety Distances(OSD)</b>  |                         |    |
| 13 Dwelling House   |                         |    |
| 14 Govt. and Public Building  |                         |    |
| 15 Temple, Mosque, Church or Gurudwara or other Places of Worships  |                         |    |
| 16 Shops, Market place, Public recreation and Sports Ground, College, School, Hospital, Theater, Cinema or other Building where the public are accustomed to assemble |                         |    |
| 17 Factory  |                         |    |
| 18 Buildings or Works used for the Storage in Bulk of Petroleum, Sprit, gas, or other inflammable or hazardous substances   |                         | 45 |
| 19 Building or Works used for Storage and Manufacture of Explosives or of articles which contain Explosives   |                         |    |
| 20 Aerodrome  |                         |    |
| 21 Furnace, Kiln or Chimney   |                         |    |
| 22 Quarry or mine pit head  |                         |    |
| 23 Power House or Electric Substation   |                         |    |
| 24 Wireless Station   |                         |    |
| 25 Warehouse or other Storage Building  |                         |    |
| 26 Any other Protected works  |                         |    |
| <b>Overhead Electric lines</b>  |                         |    |
| 27 Electric Power over head Transmission Lines above 440V   |                         | 45 |
| 28 Electric Power over head Transmission Lines upto 440V  |                         | 15 |

The Date : 27/09/2016

For Dy. Chief Controller of Explosives  
Ernakulam

**Amendments :**

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 15/02/2017
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 17/02/2017
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 26/04/2017
- Amendment in Drawings/Facilities/Premises dated : 13/09/2022
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 13/09/2022

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

Digitally signed by Dr. P. K. RANA  
Reason: Licence No. : E/SE/KL/22/112  
Location:Ernakulam [E96543]  
Date:2022.09.13 05:25:54 +05:30

(सेट VIII | Set VIII)

मेगजीन में वर्ग 1, 2, 3, 4, 5, 6, और 7 के विस्फोटकों को बिक्री या प्रयोग हेतु रखने के लिए प्ररूप एत.ई. 3 | अनुच्छेद 3 (ख) से (ग) में मुख्य विस्फोटक नियंत्रक या विस्फोटक नियंत्रक द्वारा प्रदान किए जाने वाले अनुज्ञप्ति सं. E/SE/KL/22/112(E96543) की शर्तें निम्नलिखित हैं।  
The following are the conditions of licence number E/SE/KL/22/112(E96543) to possess for sale or use, explosives of Class 1, 2, 3, 4, 5, 6 and 7 in a magazine in Form LE-3 (articles 3(b) to (c) ) granted by Chief controller of Explosives or Controller of Explosives.

- परिसर में किसी भी समय विस्फोटकों की मात्रा अनुज्ञापन योग्य सामर्थ्य से अधिक नहीं होगी।  
The quantity of explosives on the premises at any one time shall not exceed the licensable capacity.
- विस्फोटकों के भंडारण के लिए प्रयुक्त होने वाली मेगजीन अनुसूची III और अनुज्ञप्ति के उपाबंध में विनिर्दिष्ट सुरक्षा दूरी बनाए रखना होगा।  
The magazine used for storage of explosives shall maintain safety distance specified in Schedule III and annexure to the licence.
- मेगजीन का प्रयोग उन सभी विस्फोटकों के, जो इस अनुज्ञप्ति में विनिर्दिष्ट है, रखे जाने के लिए और ऐसे रखे जाने से संबद्ध आधान या औजार या उपकरणों के रखे जाने के लिए ही किया जाएगा, अन्यथा नहीं।  
The magazine shall be used only for keeping all explosives specified in this licence and of receptacles for, or tools or implements for work connected with the keeping of such explosives.
- पैकजों को खोलने का कार्य और विस्फोटकों को तोलने तथा पैक करने का कार्य मेगजीन में नहीं किया जाएगा।  
The opening of packages and the weighing and packing of explosives shall not be carried on in the magazine.
- दो या दो से अधिक वर्णन के विस्फोटकों को, जिन्हें मेगजीन में रखे जाने की अनुज्ञा दी जा सकती है, मेगजीन में तभी रखे जाएंगे जब उनमें से प्रत्येक को, ऐसे पदार्थ या स्वरूप का कोई मध्यवर्ती विभाजक लगाकर या उनके बीच ऐसा मध्यवर्ती स्थान छोड़कर, परस्पर पृथक कर दिया जाए कि किसी वजह से विस्फोटक में लगने वाली आग या होने वाला विस्फोट किसी अन्य वर्णन के विस्फोटक तक न पहुंच सके : परंतु -  
(घ) 2 (नाइट्रेट मिश्रण), वर्ग 3 (नाइट्रो यौगिक) के विभिन्न विस्फोटक, वर्ग 6 प्रथम प्रभाग के अंतर्गत आने वाले सुरक्षा पल्लिते और वर्ग 6 प्रभाग 2 के अंतर्गत आनेवाले विस्फोटक प्रेरक पल्लिते, जिनमें कोई खुला लोहा या इस्पात नहीं है, एक दूसरे के साथ बिना किसी मध्यवर्ती विभाजक या स्थान के रखे जा सकते हैं।  
(ङ) वर्ग 6 प्रभाग 3 के अंतर्गत आनेवाले विस्फोटक प्रेरक अलग रखे जाएंगे।  
(च) वर्ग 1 के अंतर्गत आने वाले बारूद को अलग रखा जाएगा।  
Two or more description or explosives which may be permitted to be kept in the magazine shall be kept only if they are separated from each other by an intervening partition of such substance or character, or by such intervening space, as will effectually prevent explosion or fire in the one communicating with the other; Provided that—  
(d) the various explosives of Class 2 (nitrate-mixture), Class 3 (nitro-compound), safety fuses belonging to Class 6 Division 1 and detonating fuses belonging to Class 6 Division 2 as do not contain any exposed iron or steel, may be kept with each other without any intervening partition or space ;  
(e) Detonators belonging to Class 6 Division 3 shall be kept separately.  
(f) Gun powder belonging to Class 1 shall be kept separately.
- वर्ग 3 (नाइट्रो यौगिक) के विस्फोटकों को, उनके विनिर्माण की तारीख से एक वर्ष बीत जाने के पश्चात सिवाय अनुज्ञापन प्राधिकारी की विशेष मंजूरी के मेगजीन में नहीं रखा जाएगा।  
Explosives of Class 3 (nitro compound) shall not be kept in the magazine after the expiration of one year from the date of their manufacture except with the special sanction of licensing authority.
- वर्ग 3 (नाइट्रो यौगिक) के विस्फोटकों को, उनके विनिर्माण की तारीख से एक वर्ष बीत जाने के पश्चात मेगजीन में तभी रखा जाएगा जब कि किसी विस्फोटक नियंत्रक ने इसके लिए विशेष मंजूरी दे दी हो।  
(i) जब ऐसी मंजूरी दे दी गई हो तो प्रत्येक निरीक्षण पर किसी विस्फोटक नियंत्रक से ऐसा लिखित प्रमाणपत्र अधिप्राप्त कर लिया जाए जिसमें दी गई मंजूरी के अंतर्गत आनेवाली अवधि दर्शित की गई हो और ऐसे प्रमाणपत्र के अनुज्ञप्तिधारी अपने पास रखेगा और मांग की जाने पर प्रस्तुत करेगा।  
(ii) जब कोई विस्फोटक मानक शुद्धता का न रह जाने के कारण या द्रवणीकरण या नाइट्रो म्ती असरीन या द्रव नाइट्रो यौगिक के निकल जाने के चिन्ह प्रकट होने के कारण मेगजीन में भण्डारित किए जाने के उपयुक्त नहीं रह जाता है तो अनुज्ञप्तिधारी अपने ही व्यय पर ऐसे विस्फोटक के निपटारे के लिए ऐसे निदेशों का अनुपालन करेगा जो मुख्य नियंत्रक या विस्फोटक नियंत्रक जारी करें।  
Explosives of Class 3 (nitro compound) shall not be kept in the magazine after the expiration of one year from the date of their manufacture except with the special sanction of the Controller of Explosives.  
(i) When such sanction has been given, a written certificate showing the period covered by the sanction shall be obtained from the Controller of Explosives at each inspection, and shall be kept by the licensee and produced on demand.  
(ii) When an explosive owing to its being no longer of standard purity or owing to signs of liquefaction or of exuded nitro-glycerin or liquid nitro-glycerin or liquid nitro compound is no longer fit for storage in the magazine or store house the licensee shall comply, at his own expense, with such directions as to its disposal as the Chief Controller or Controller of Explosives may issue.
- मेगजीन के भीतरी भाग या उसमें लगी बेंचो, शेल्फों और उसकी फिटिंग का इस प्रकार सन्निर्माण किया जाएगा या उन्हें इस प्रकार अंतरित या अवतरित किया जाएगा कि विस्फोटक का किसी लोहे या इस्पात के साथ संपर्क रोका जा सके। भीतरी भाग में लगी बेंचो, शेल्फों और फिटिंग यथासाध्य ग्रिट से मुक्त एवं साफ रखे जाएंगे तथा ऐसे विस्फोटक, जो जल से खतरनाक रूप में प्रभावित हो सकते हैं, इस बाबत सम्यक सावधानी बरती जाएगी कि वहां कोई जल मौजूद न रहे : परंतु किसी लोहे या इस्पात के खुले होने के विरूद्ध सावधानी से संबंधित इस शर्त का वह भाग ऐसे किसी भवन में बाध्यकर नहीं होगा जिसमें वर्ग 6 (गोला बारूद) के प्रथम के विस्फोटक से भिन्न कोई विस्फोटक रखा गया है।  
The interior of the magazine and the benches, shelves and fittings therein shall be so constructed or so lined or covered as to prevent the exposure of any iron or steel contact with the explosives. Such interior, benches, shelves and fittings shall so far as is reasonably practicable, be kept free from grit and shall otherwise be clean; and in the case of any explosives liable to be dangerously affected by water, due precautions shall be taken to exclude water there from:  
Provided that so much of this condition as relates to precautions against the exposure of any iron or steel shall not be obligatory in a building in which no explosive other than explosive of the 1st Division 6th (Ammunition) Class is kept.
- यदि तडित चालक का परीक्षण विस्फोटक नियंत्रक करता है तो अनुज्ञप्तिधारी ऐसे परीक्षण के लिए विहित फीस का संदाय करेगा यदि परीक्षण असमाधानकारी साबित होता है तो उतनी ही फीस अनुज्ञप्तिधारी द्वारा पश्चात्वर्ती प्रत्येक परीक्षण के लिए तब तक दी जाती रहेगी जब तक कि परीक्षण अधिकारी तडित चालक को समाधानप्रद घोषित नहीं कर देता परंतु किसी एक परीक्षण के लिए देय फीस किसी एक दिन के दौरान किसी चालक के लिए गए सभी परीक्षणों के लिए प्रमार्य होगा।  
परंतु यह और कि यदि दो या अधिक तडित चालक एक ही मेगजीन से संबद्ध हैं तो ऐसे सभी चालकों के परीक्षण के लिए फीस ऐसी किसी फीस से अधिक नहीं होगी जो किसी एक तडित चालक के परीक्षण के लिए हर स्थिति में विहित की गई है।  
If the lighting conductor is tested by the Controller of Explosives, the licensee shall pay the fees prescribed for test. In the even of the test proving unsatisfactory, the same fees shall be payable by the licensee for each subsequent test until the lighting conductor is passed by the testing officer as satisfactory.  
Provided that the fees payable for a single test shall be charged for all tests made on a conductor during any one day.  
Provided further that where two or more lighting conductors are attached to one and the same magazine, the fee for the testing of all such conductors shall not exceed the fee prescribed in this condition for testing a single lighting conductor.
- उपयुक्त तथा जेब रहित कार्यकरण वस्तु, उपयुक्त जूतों के प्रयोग द्वारा तथा तलाशी लेकर या अन्यथा अथवा ऐसे किन्हीं साधनों द्वारा इस बाबत सम्यक उपबंध किया जाएगा कि फैक्ट्री परिसर में अग्नि, दियासलाई अथवा ऐसी कोई वस्तुएं या पदार्थ, जिससे विस्फोट हो सकता है या आग लग सकती हो, किन्तु इस शर्त के कारण ऐसी संरचना, स्थिति या स्वरूप में किसी कृत्रिम बत्ती का प्रवेश वर्जित नहीं है जिससे आग लगने या विस्फोट होने का खतरा न हो।  
परंतु इस शर्त का वह भाग, जो लोहे या इस्पात के अपवर्जन को लागू होता है, ऐसे किसी भवन के संबंध में बाध्य कर नहीं होगा जिससे भिन्न कोई विस्फोटक नहीं रखा गया है।  
Due provisions shall be made, by the use of suitable working clothes without pockets, suitable shoes and by searching or otherwise or by such means, for preventing the introduction into danger area of the factory premises of fire, Lucifer matches or any substance or article likely to cause explosion or fire, but this condition shall not prevent the introduction of an artificial light of such construction, position or character as not to cause any danger of fire or explosion.  
Provided that so much of this condition as applies to the exclusion of iron or steel, shall not be obligatory in a building in which no explosive other than an explosive of the 1st Division of the 6th (Ammunition) Class is kept.

11. अनुज्ञापिधारी प्ररूप आर ई-3 और आर ई-4 या आर ई-5, जैसी स्थिति हों, में सभी विस्फोटकों का अभिलेख और लेखा रखेगा और विस्फोटक नियम, 2008 के अधीन प्राधिकृत किसी भी अधिकारी के समक्ष उसके द्वारा ऐसा करने की मांग की जाने पर स्टॉक पुस्तक और अभिलेख प्रस्तुत करेगा। स्टॉक पुस्तक विहित प्रोफार्मा में पृष्ठ संख्यांकित होंगी।  
The licensee shall keep records and accounts of all explosives in Forms RE-3 and RE-4 or RE-5, as the case may be, and exhibit the stock books and records to any of the officers authorised under the Explosives Rules, 2008 whenever such officer may call upon him to do so. The stock books in the prescribed proforma shall be page numbered.
12. परिसरों में कोई परिवर्तन या तबदीली अनुज्ञापन प्राधिकारी के पूर्वानुमोदन बिना नहीं की जाएगी और अनुज्ञापिधारी ऐसी किसी शर्त का अनुपालन करेगा जो इस निमित्त अनुज्ञापन प्राधिकारी विनिर्दिष्ट करें।  
No changes or alterations shall be carried out to the premises without prior approval of the licensing authority and the licensee shall comply with any condition that may be specified by the licensing authority in this behalf.
13. मैगजीन सभी समयों पर अच्छी मरम्मत की स्थिति में बनाई रखी जाएगी (या अच्छी हालत में बनाई रखी जाएगी)। यदि किसी कारणवश किसी विस्फोटक के भण्डारण के लिए मैगजीन अनुपयुक्त हो जाती है तो अनुज्ञापिधारी इस बात की सूचना अनुज्ञापन प्राधिकारी को तुरंत देगा।  
Magazine shall at all times be kept in state of good repair (or maintained in good condition). The licensee shall report to licensing authority forthwith, if the magazine becomes unfit for storage of any explosives for any reason whatsoever.  
मैगजीन का अनुज्ञापिधारी इन नियमों के नियम 24 के उप-नियम 3 के अनुसार त्रैमासिक विवरणी प्रस्तुत करेगा।  
The licensee of the magazine shall submit quarterly return as per sub-rules (3) and (4) of rule 24 of these rules.
14. यदि सुरक्षा दूरी का कोई अधिकमण होता है तो उसकी सूचना अनुज्ञापन प्राधिकारी को आवश्यक सलाह और कार्यवाही के लिए तुरंत दी जाएगी।  
Any encroachment of the safety distance shall be immediately communicated to the licensing authority for necessary advice and action.
15. यदि कोई विस्फोटक विनष्ट हुआ अथवा अनुपयोगी जाया जाता है तो उसकी सूचना अनुज्ञापन प्राधिकारी को, सलाह प्राप्त करने के लिए, तुरंत दी जाएगी।  
The licensing authority shall be immediately informed for advice if any explosive is found deteriorated or unserviceable.
16. विस्फोटकों के पैकेटों के चट्टे इस प्रकार लगाए जाएंगे कि कम से कम एक व्यक्ति भण्डार किए गए सभी पैकेजों की हालत की जांच करने और प्रत्येक पैकेज की विनिर्माण विधिधियों को पढ़ने के लिए उनके बीच से होकर आ जा सके।  
The explosive packages shall be stocked in such a way so as to allow movement of at least one person to check the condition of all packages stored and to read the manufacture particulars of each package.  
तडित चालकों की भूमि के लिए प्रतिरोध यथासंभव न्यूनतम होगा और किसी भी दशा में 10 ओह्म से अधिक नहीं होगा।  
The resistance of the lightning conductor to earth shall be as low as possible and in no case be more than 10 ohms.
17. मैगजीन के चारों ओर 15 मीटर की दूरी के अंतर्गत कोई शुल्क घास या झाड़ी या ज्वलनशील सामग्री नहीं रहने दी जाएगी।  
A distance of 15 meters surrounding the magazine or store house shall be kept clear of dried grass or bush or flammable materials.
18. विस्फोटकों के प्रत्येक पैकेट की, जब उसे मैगजीन के भीतर लिया जा रहा हो, ठीक दशा जानने के लिए परीक्षा की जाएगी।  
Every package of explosive at the time of bringing inside the magazine shall be examined for its sound condition.
19. किसी मैगजीन/ भण्डारगृह में किसी एक समय में चार व्यक्तियों से अधिक को नहीं रहने दिया जाएगा।  
Not more than 4 persons shall be allowed inside the magazine or store house at any one time.
20. विस्फोटकों के खाली पैकेजों को शीघ्रतश्चिघ्र वहां से हटा दिया जाएगा और नष्ट कर दिया जाएगा।  
Empty packages of the explosives shall be removed at the earliest and destroyed.
21. अनुज्ञापिधारी और कर्मचारीयों को परिसर के भीतर आपातकाल के दौरान की जाने वाली प्रक्रियाओं से अवगत होना चाहिए।  
The licensee and the employee shall be conversant with procedure to be taken during the emergency within the premises.
22. निरीक्षण या नमूना अधिकारी को सभी युक्तियुक्त समयों पर अनुज्ञापन परिसर में अबाध रूप से पहुंचने दिया जाएगा और यह सुनिश्चित करने के लिए कि अधिनियम और इन नियमों के उपबंधों और सुरक्षा स्थितियों को सम्यक्तः अनुपालन किया जा रहा है, अधिकारी को प्रत्येक सुविधा प्रदान की जाएगी।  
Free access to the licensed premises shall be given at all reasonable times to any inspecting or sampling officer and every facility shall be afforded to the officer for ascertaining that the provisions of the Act and these rules and the safety conditions are duly observed.
23. यदि अनुज्ञापन प्राधिकारी या विस्फोटक नियंत्रक अनुज्ञापिधारी को अनुज्ञापन परिसरों या मशीनों, टूल या उपकरण में ऐसी कोई मरम्मत या परिवर्तन या परिवर्तन करने या सिफारिशों को लागू करने को लिखित रूप में सूचित करता है जो परिसर के अंदर या बाहर या व्यक्तियों की सुरक्षा के लिए आवश्यक है, अनुज्ञापिधारी को निष्पादित करेगा और विनिर्दिष्ट अवधि के भीतर अनुपालन रिपोर्ट ऐसे प्राधिकारी को देगा।  
If the licensing authority or a Controller of Explosives informs in writing, the holder of the licence to execute any repairs or to make any additions or alterations to the licensed premises or machinery, tools or apparatus or carry out recommendations, which are in the opinion of such authority may pose unacceptable risk and so necessary for the safety of either on-site or off-site of the premises or persons, the holder of the licence shall execute the recommendations and report compliance within the period specified by such authority.
24. अनुज्ञापिधारी मैगजीन में रखने और बिक्री के लिए प्राधिकृत विस्फोटक सूची में उल्लिखित अनुज्ञापन फैक्टरी या कंपनी से प्राधिकृत विस्फोटक / आतिशबाजी या सुरक्षा पतीते खरीदेगा।  
The licensee shall purchase authorised explosives/ fireworks or safety fuse as mentioned in the list authorised explosives from a licensed factory or company for possession and sale from the magazine.
25. निम्न से अधिक ध्वनि स्तर उत्पादित करने वाले आतिशबाजियों पटाखों की बिक्री और रखने के लिए –  
(क) जो फटने की जगह से चार मीटर की दूरी पर है, 125 डी बी (ए) या 145 डी बी (सी) पी के प्रतिबंधित होंगे;  
(ख) श्रृंखला (जुड़े हुए पटाख) को गठन करने वाले व्यक्तिगत पटाखों के लिए उपर्युक्त उल्लिखित सीमा 5 लॉग 10 (एन) डी बी (सी) पी के प्रतिबंधित होंगे;  
The possession and sale of fire-crackers generating noise level exceeding:  
a) 125 dB(A) or 145 dB(C)pk at 4 meters distance from the point of bursting shall be prohibited;  
b) For individual fire-cracker constituting the series (joined fire-crackers), the above mentioned limit be reduced by 5 log<sub>10</sub> (N) dB, where N = number of crackers joined together.
26. आग या विस्फोट द्वारा दुर्घटना या नुकसान पटाखों की कमी या चोरी, तुरंत पास के पुलिस थाने और अनुज्ञापन प्राधिकारी और अनुज्ञापन प्राधिकारी के स्थानीय कार्यालय को रिपोर्ट की जाएगी।  
Accidents by fire or explosion and losses, shortage or theft of explosives shall be immediately reported to the nearest police station and the licensing authority and local office of the licensing authority.

**अतिरिक्त शर्तें / Additional Conditions :**

1. अनुज्ञापिधारी विदेशी मूल के आतिशबाजी को ना प्रदर्शित करेगा, ना रखेगा और ना ही उसकी बिक्री करेगा। The licensee shall not exhibit, possess and sell fireworks of foreign origin.

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

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

उप मुख्य विस्फोटक नियंत्रक | Deputy 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 Dr. P. K. RANA  
Reason: Licence No. E/SE/KL/22/112  
Location Ernakulam [E96543]  
Date 2022.09.13 05:25:14 +05:30



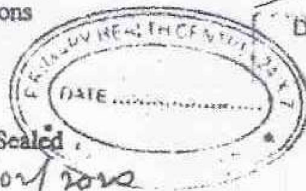
Cert No. SMR-E/6766

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

श्री कर्नाटी लातिश सुपुत्र के येदुकोंदालु  
जिनकी जन्म तिथि 15.06.1996 है, को विहित अर्हताएं एवं अनुभव प्राप्त करने  
का सन्तोषजनक प्रमाण प्रस्तुत करने पर एतद्वारा केवल ओपनकास्ट धात्विकीय खानों के प्रबंधन हेतु  
द्वितीय श्रेणी प्रबंधक सक्षमता प्रमाण-पत्र प्रदान किया जाता है। यह प्रमाण-पत्र दिनांक 20 अगस्त 2019  
से प्रभावी है।

Shri KARNATI LATHISH son of K YEDUKONDALU  
born on 15 JUNE 1996 having given satisfactory evidence of possessing  
the prescribed qualifications and experience is hereby granted **SECOND CLASS MANAGER'S  
CERTIFICATE OF COMPETENCY** to manage the metalliferous mines having opencast workings  
only. This certificate is effective from 20.08.2019

सचिव  
खान परीक्षा बोर्ड  
Secretary  
Board of Mining  
Examinations



Signed and Sealed  
Date 27/07/2022

Dr. SURAJ V.S. MBBS  
Reg. No. 29869  
Asst. Surgeon

अध्यक्ष  
खान परीक्षा बोर्ड  
Chairman  
Board of Mining  
Examinations



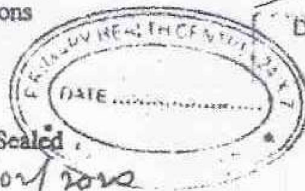
Cert No. SMR-E/6766

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

श्री कर्नाटी लातिश सुपुत्र के येदुकोंदालु  
जिनकी जन्म तिथि 15.06.1996 है, को विहित अर्हताएं एवं अनुभव प्राप्त करने  
का सन्तोषजनक प्रमाण प्रस्तुत करने पर एतद्वारा केवल ओपनकास्ट धात्विकीय खानों के प्रबंधन हेतु  
द्वितीय श्रेणी प्रबंधक सक्षमता प्रमाण-पत्र प्रदान किया जाता है। यह प्रमाण-पत्र दिनांक 20 अगस्त 2019  
से प्रभावी है।

Shri KARNATI LATHISH son of K YEDUKONDALU  
born on 15 JUNE 1996 having given satisfactory evidence of possessing  
the prescribed qualifications and experience is hereby granted **SECOND CLASS MANAGER'S  
CERTIFICATE OF COMPETENCY** to manage the metalliferous mines having opencast workings  
only. This certificate is effective from 20.08.2019

सचिव  
खान परीक्षा बोर्ड  
Secretary  
Board of Mining  
Examinations



Signed and Sealed  
Date 27/07/2022

Dr. SURAJ V.S. MBBS  
Reg. No. 29069  
Asst. Surgeon

अध्यक्ष  
खान परीक्षा बोर्ड  
Chairman  
Board of Mining  
Examinations

**ANNEXURE 4**  
**PANCHAYAT LICENSE**



ആലുവക്കോട് ഗ്രാമപഞ്ചായത്തിൽ നിന്നും

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

അതേ തുടർനടപടികളും അനുസരിച്ച്

പരാമുഖികൾ, വ്യാപാരങ്ങൾ, സംരംഭങ്ങൾ, മറ്റു സേവനങ്ങൾ എന്നിവയ്ക്കായി നൽകുന്ന

**ലൈസൻസ്**

നമ്പർ : 400554/RPTL20/GPO/2024/809

തീയതി : 30.03.2024

|   |  |   |
|---|--|---|
| ലൈസൻസിയുടെ പേരും മേൽവിലാസവും  | ശ്രീ. ബിനോയ് ജോസ്, ഇലവങ്കൽ (H), നാഗപ്പുഴ പി.ഒ, കല്ലൂർക്കോട്  |   |
| സ്ഥാപനത്തിന്റെ പേരും സ്ഥലനാമവും   | ക്വറി ഓഫ് ബിനോയ് ജോസ്, പാലപ്പിള്ളി   |   |
| ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ  | പാറ പൊട്ടിച്ച് വില്പന നടത്തുന്നതിന്  |   |
| കെട്ടിടത്തിന്റെ നമ്പരും വാർഡ് നമ്പരും   | വാർഡ് 6, ആലുവക്കോട് വില്ലേജ്, സർവ്വെ നമ്പർ 336/3-4, 336/3-3, 395/1   |   |
| ലൈസൻസ് കാലയളവ്  | 01-04-2024 മുതൽ 31-03-2025 വരെ   |   |
| ഈടാക്കിയ ലൈസൻസ് ഫീസ്  | ₹17500   | സെീത് നം: 1230101955<br>തീയതി: 28-03-2024 |
| തൊഴിൽക്കരം  | ₹2500  | സെീത് നം: 1230101955<br>തീയതി: 28-03-2024 |
| ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരീക്ഷണപത്രങ്ങളുടെ വിവരങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാരസ്വരൂപം) | <p>1-കേരള സംസ്ഥാന ക്രൈംസ് &amp; ഓർഗനൈസ്ഡ് വകുപ്പിന്റെ 09/03/2030 വരെ കാലാവധിയുള്ള ക്വറിയിംഗ് ലിസ്റ്റ് എഗ്രിമെന്റ്.</p> <p>2-കേരള സംസ്ഥാന ലിനീകരണ നിയന്ത്രണ ബോർഡിന്റെ 31/08/2027 വരെ കാലാവധിയുള്ള സാക്ഷ്യപത്രം.</p> <p>3-കേരള പെരട്രോളിയം &amp; എക്സ്പ്ലോസീവ് വകുപ്പിന്റെ 31/03/2027 വരെ കാലാവധിയുള്ള സാക്ഷ്യപത്രം.</p> <p>4-സംസ്ഥാന പരിസരിയിൽ ആഘാത നിർണ്ണയ അതോറിറ്റിയുടെ പ്രവർത്തനാനുമതി സാക്ഷ്യപത്രം.</p> <p>5-സ്ഥലത്തിന്റെ ഉടമസ്ഥത സംബന്ധിച്ച രേഖകൾ.</p> |   |

Digitally signed by J. Lakumar P K  
Date: 2024.04.05 13:36:16 IST  
Reason: ILGMS Govt. of Kerala

**സെക്രട്ടറി**  
ആലുവക്കോട് ഗ്രാമപഞ്ചായത്ത്

**ലൈസൻസി താഴെപ്പറയുന്ന വ്യവസ്ഥകൾ അനുസരിക്കേണ്ടതാകുന്നു.**

1. കേരള പഞ്ചായത്ത് രാജ് ആക്ടും അതനുസരിച്ചുള്ള ചട്ടങ്ങളും ബോധകളും അനുസരിച്ചു പ്രവർത്തിക്കേണ്ടതാകുന്നു.
2. തൊഴിൽസ്ഥലവും അതിലുള്ള സാധനസാമഗ്രികളും പഞ്ചായത്ത് അധികാരികൾക്കോ / സെക്രട്ടറി അധികാരപ്പെടുത്തുന്ന മറ്റ് ഉദ്യോഗസ്ഥർക്കോ പരിശോധിക്കുന്നതിന് ലൈസൻസി വേണ്ട സൗകര്യങ്ങൾ നൽകേണ്ടതും അവർ ആവശ്യപ്പെട്ടാൽ ഈ ലൈസൻസ് കാണിക്കേണ്ടതുമാകുന്നു.
3. ഏതു സ്ഥലത്തിന്റെ കാര്യത്തിൽ ലൈസൻസ് നൽകിയിരിക്കുന്നുവോ ആ സ്ഥലത്ത് എല്ലാവരും കാണത്തക്കവിധത്തിലുള്ള ഒരു ഭാഗത്ത് ലൈസൻസി തന്റെ പേരും ലൈസൻസിന്റെ നമ്പരും ഉദ്ദേശ്യവും കാണിക്കുന്ന ഒരു അടയാളപ്പലക വെച്ചിരിക്കേണ്ടതാണ്.
4. പഞ്ചായത്തിൽനിന്നും അനുവാദം സിദ്ധിച്ച ശേഷമല്ലാതെ തൊഴിൽസ്ഥലം മാറ്റാൻ പാടില്ലാത്തതും തൊഴിൽ നിർത്തുന്ന പക്ഷം വീണ്ടും മുൻകൂട്ടി പഞ്ചായത്തിൽ അറിയിക്കേണ്ടതുമാകുന്നു.
5. തൊഴിൽസ്ഥലവും പരിസരങ്ങളും വൃത്തിയാക്കാനും സാംക്രമികരോഗാണുക്കൾ ഉണ്ടാകാത്തവിധത്തിലും പൊതുജനോപദ്രവമാകാത്ത വിധത്തിലും വ്യാപാരത്തിന് വെച്ചിട്ടുള്ള ഭക്ഷണപദാർത്ഥങ്ങൾ ഈച്ച, അണുക്കൾ, പൊടി മുതലായവയുടെ ശല്യം ഉണ്ടാകാത്ത വിധത്തിലും സൂക്ഷിക്കേണ്ടതാണ്.
6. ഏതൊരു പ്രവൃത്തിദിവസത്തിന്റെയും ഒടുവിൽ സ്ഥലം വൃത്തിയാക്കേണ്ടതാണ്.
7. ആ സ്ഥലത്തിന്റെയോ പരിസരത്തിന്റെയോ ഏതെങ്കിലും ഭാഗത്ത് വീഴുകയോ നിക്ഷേപിക്കപ്പെടുകയോ ചെയ്യുന്ന ചപ്പുചവറോ മൃഗങ്ങളുടെ അവശിഷ്ടങ്ങളോ മറ്റു പദാർത്ഥമോ ശേഖരിച്ച് സെക്രട്ടറിക്ക് തൃപ്തികരമായ രീതിയിൽ നീക്കം ചെയ്യിക്കേണ്ടതാണ്.
8. ലൈസൻസി ഏതൊരു കെട്ടിടത്തിന്റെയും ചുമരുകളുടെ അകവശത്തിന്റെ ഏതൊരു ഭാഗവും മേൽപ്പറഞ്ഞ പരിസരത്തിലുള്ള തറയും നടപ്പാതയും അവിടെ തെറിപ്പിഴാനിടയുള്ള ഏതെങ്കിലും ദ്രാവകമോ, മാലിന്യമോ ചപ്പുചവറോ അസഹ്യവും ഉപദ്രവകരവുമായ ഏതെങ്കിലും പദാർത്ഥമോ അവിടെ ലാമിക്കുന്നത് തടയത്തക്കവിധം എപ്പോഴും നന്നായി കേടുപാടു തീർത്തു നിലനിർത്തേണ്ടതാണ്.
9. ലൈസൻസി മേൽപ്പറഞ്ഞ സ്ഥലത്തോ, പരിസരത്തോ അതോടുചേർന്നുള്ള ഏതൊരു ഓവുചാലും അഴുക്കുജലം കളയുന്നതിനുള്ള ഉപകരണവും എപ്പോഴും നന്നായി കേടുപാടുതീർത്തു വെച്ചിരിക്കേണ്ടതാണ്.
10. അയിത്തം ആചരിക്കുന്ന കടകളുടെ ലൈസൻസ് റദ്ദ് ചെയ്യുന്നതാണ്.
11. ഏതെങ്കിലും തരത്തിലുള്ള തൃക്ക് രോഗമോ കഷ്ടരോഗമോ, പ്രണമോ പകർച്ചവ്യാധികളോ ഉള്ള യാതൊരാളും കച്ചവടം നടത്തുന്നതിന് ഉപയോഗിക്കുന്ന സ്ഥലത്തും പരിസരത്തും പ്രവർത്തിക്കുവാൻ പാടില്ലാത്തതാകുന്നു.
12. നിരോധിത പ്ലാസ്റ്റിക് ഇനങ്ങൾ ഉൽപ്പാദിപ്പിക്കുകയോ ശേഖരിക്കുകയോ വിൽക്കുകയോ കൈകാര്യം ചെയ്യുകയോ പാടില്ല.
13. സ്ഥാപനത്തിന്റെ ബോർഡിൽ സ്ഥലനാമം മലയാളത്തിലും ഇംഗ്ലീഷിലും രേഖപ്പെടുത്തേണ്ടതാണ്.
14. 20 സീറ്റിൽ കൂടുതലുള്ള എല്ലാ ഹോട്ടലുകൾക്കും റെസ്റ്റോറന്റുകൾക്കും ടോയിലെറ്റ് സൗകര്യം ഏർപ്പെടുത്തേണ്ടതാണ്.
15. നിരോധിത ഉൽപ്പന്നങ്ങളായ പാൻക്സാല, ഗ്രഡ്ക തുടങ്ങിയവ സംഭരിച്ചു വെക്കുവാനോ വിൽക്കുവാനോ പാടില്ല.
16. ബാലവേല അനുവദിക്കുവാൻ പാടില്ല.
17. മുകളിൽ കാണിച്ചിരിക്കുന്ന വ്യവസ്ഥകളുടെ ലംഘനം ഈ ലൈസൻസ് റദ്ദ് ചെയ്യുന്നതിന് കാരണമാകാവുന്നതാണ്.
18. പൊതുരേണവകുപ്പിന്റെ 13-06-2020ലെ സ.ഉ.(സാധാ) 1877/2020/പൊ.ഭ.വ. ഉത്തരവു പ്രകാരമുള്ള കോവിഡ് പ്രൊട്ടോക്കോൾ പാലിക്കണം.
19. തദ്ദേശ സ്വയം ഭരണ വകുപ്പിന്റെ 22-07-2017ലെ സ.ഉ.(സാധാ) 2511/2017/ത.സ്വ.ഭ.വ. പ്രകാരമുള്ള ഉറവിട മാലിന്യ സംസ്കരണ സംവിധാനം സ്ഥാപിക്കണം.
20. മറ്റ് വകുപ്പുകളിൽ നിന്നും അനുവദിച്ചിട്ടുള്ള പെർമിഷൻ, ലൈസൻസ്, മറ്റ് ക്ലിയറൻസുകൾ എന്നിവ അതത് സമയങ്ങളിൽ പുതുക്കേണ്ടതാകുന്നു. അല്ലാത്ത പക്ഷം പഞ്ചായത്ത് അനുവദിച്ചിട്ടുള്ള ലൈസൻസ് സ്വയംയഥാ റദ്ദാകുന്നതാണ്.

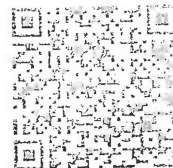
(ഒപ്പ്)  
സെക്രട്ടറി  
ആലക്കോട് ഗ്രാമപഞ്ചായത്ത്

NB. ഈ ലൈസൻസ് ഡിജിറ്റലായി ഒപ്പ് വെച്ചിട്ടുള്ളതായതിനാൽ പ്രത്യേകമായ ഒപ്പും സീലും ആവശ്യമില്ല. ഈ ലൈസൻസ് അവസാനിക്കുന്ന തീയതിക്ക് മുമ്പായി ദിവസത്തിനകം ലൈസൻസ് പുതുക്കുന്നതിനുള്ള അപേക്ഷ സമർപ്പിക്കേണ്ടതാണ്.

**ANNEXURE 5**  
**PCB CONSENT**

FILE NO : KSPCB/ID/ICO/10010639/2022

Date of issue : 17-10-2022



**KERALA STATE POLLUTION CONTROL BOARD**

**CONSENT TO**

**OPERATE/AUTHORISATION/REGISTRATION**

**ISSUED UNDER**

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

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

and

The Environment (Protection) Act, 1986

As per Application No. : 10010639

Dated : 30-08-2022

To

**ROCK QUARRY OF BINOY JOSE  
PALAPPILLY, INCHIYANI**

Consent No. : KSPCB/ID/ICO/10010639/2022

Valid Upto : 31-08-2027

## 1. GENERAL

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

|    |                                       |   |
|----|---------------------------------------|---|
| 1  | VALIDITY                              | 31-08-2027  |
| 2  | Name and Address of the establishment | ROCK QUARRY OF BINOY JOSE<br>PALAPPILLY ,INCHIYANI  |
| 3  | Occupier Details                      | BINOY JOSE<br>ELAVUMKAL HOUSE NAGAPPUZHA<br>KALLOORKAD ERNAKULAM                            |
| 4  | Local Body                            | ALACODE GRAMAPANCHAYATH   |
| 5  | Survey Number                         | 336/3-4,395/1,336/3-3   |
| 6  | Village                               | Alacode   |
| 7  | Taluk                                 | Thodupuzha  |
| 8  | District                              | IDUKKI  |
| 9  | Capital Investment(Rs in Lakhs)       | 115.4   |
| 10 | Scale                                 | Small   |
| 11 | Category                              | RED   |
| 12 | Annual fee(Rs)                        | 25000.0   |
|    | Total Fee remitted(Rs)                | 162500.0  |
| 13 | Activity                              | Raw material:ROCKS@90 Metric Tonnes/Day<br>Product:GRANITE BOULDERS@90 Metric<br>Tonnes/Day |
| 14 | Machinery details                     | Compressor-65HP<br>Diesel Engine-73KW   |

## SPECIFIC CONDITIONS

### 2. CONDITIONS AS PER

The Water (Prevention and Control of Pollution) Act, 1974

2.1 In case of generation of trade effluent from the industry, effluent treatment system consisting of treatment units having adequate capacity established as per the Integrated Consent to Establish issued shall be operational at all times during which the industry is functional. Additional facilities required, if any, to achieve the standards laid down by the Board u/s 17(1) (g) of the Water Act shall also be made along with.

2.2 Water consumption: 6000 LPD

2.3 Effluent generation: 5000 LPD

2.4 Mode of disposal of treated effluent: Septic tank/soakpit

### 3. CONDITIONS AS PER

The Air (Prevention and Control of Pollution) Act, 1981 Mode of disposal of treated effluent:

3.1 Adequate air pollution control measures shall be operational at all times during the functioning of the industry. Additional facilities required, if any, to achieve the standards laid down by the Board shall also be made along with.

### 4. CONDITIONS AS PER

The Environment (Protection) Act, 1986.

4.1 The operation of the industry shall be strictly in compliance with the provisions of the Noise Pollution (Regulation and Control) Rules 2000.

4.2 Used lead acid batteries shall be disposed of as per the Batteries (Management and Handling) Rules, 2001

4.3 Hazardous waste generated, if any, shall be handled as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

4.4 E-waste shall be disposed off safely as per the E-Waste (Management) Rules, 2016.

### 5. GENERAL CONDITIONS

5.1. This consent is granted based on the Environmental Clearance 122/Q/2022 dated 01/09/2022 for an area of 1.5163 Ha in Survey No 336/3-3, 336/3-4, 395/1 in Alakkodu Village, Thodupuzha Taluk, Idukki District and Kerala. The quarrying shall be done after obtaining all statutory/necessary clearances from concerned authorities and is valid only when all other clearances from other concerned authorities are valid.

5.2. For renewal of the consent in case of continuance of operation of the quarry, application in the prescribed form shall be submitted through the web portal of the Board for Online Consent Management & Monitoring System 2 months prior to the date of expiry. Late application will be accepted only with fine.

5.3. The consent issued from the board is only with respect to the powers vested under the water Act 1974, Air Act 1981 and The Rules there under. The operation of the quarry shall be commenced only after

obtaining clearances from all concerned Authorities.

5.4. There shall not be any quarrying activity between 6 pm to 6 am.

5.5. Mining activities shall be done only in the area marked by Mining & Geology.

5.6. There shall be a minimum distance of 50 m from boundary of quarry operating area to residential Building, place of worship, public buildings, public road having vehicular traffic, river or lake, railway line, Bridges etc.

5.7. The PM10 in ambient air at the boundary shall not exceed 100 microgram/m<sup>3</sup>.

5.8. The PM 2.5 in ambient air at the boundary shall not exceed 60 microgram/m<sup>3</sup>.

5.9. The sound level (Leq) at 1 m outside the boundary of the site should not exceed the ambient noise Standards applicable to the adjoining areas.

5.10. Conditions given in the Environmental clearance shall be strictly complied with.

5.11. Mining shall be only done as per the mining plan attached with EC.

5.12. Annual environmental statement shall be submitted on or before 31 st March every year.

5.13. This consent is issued based on the Judgment dated 25/10/2021 of the Hon'ble Supreme Court in CA No: 6273/2021 and connected matters, Order dated 14/12/2021 of Hon'ble Supreme Court in MA.No: 1904/2021, Judgment dated 10/11/2021 of Hon'ble High Court of Kerala in WP© 2773/2021 and Judgment dated 10/12/2021 of Hon'ble High Court of Kerala in WP© 27178/2021.

5.14. This consent is issued subject to any order that may be passed by the Hon'ble Supreme Court or the Hon'ble NGT in the connected matters.

Digitally signed by EBY VARGHESE  
Date: 2022.10.17 06:15:14 IST

SIGNATURE OF ISSUING AUTHORITY

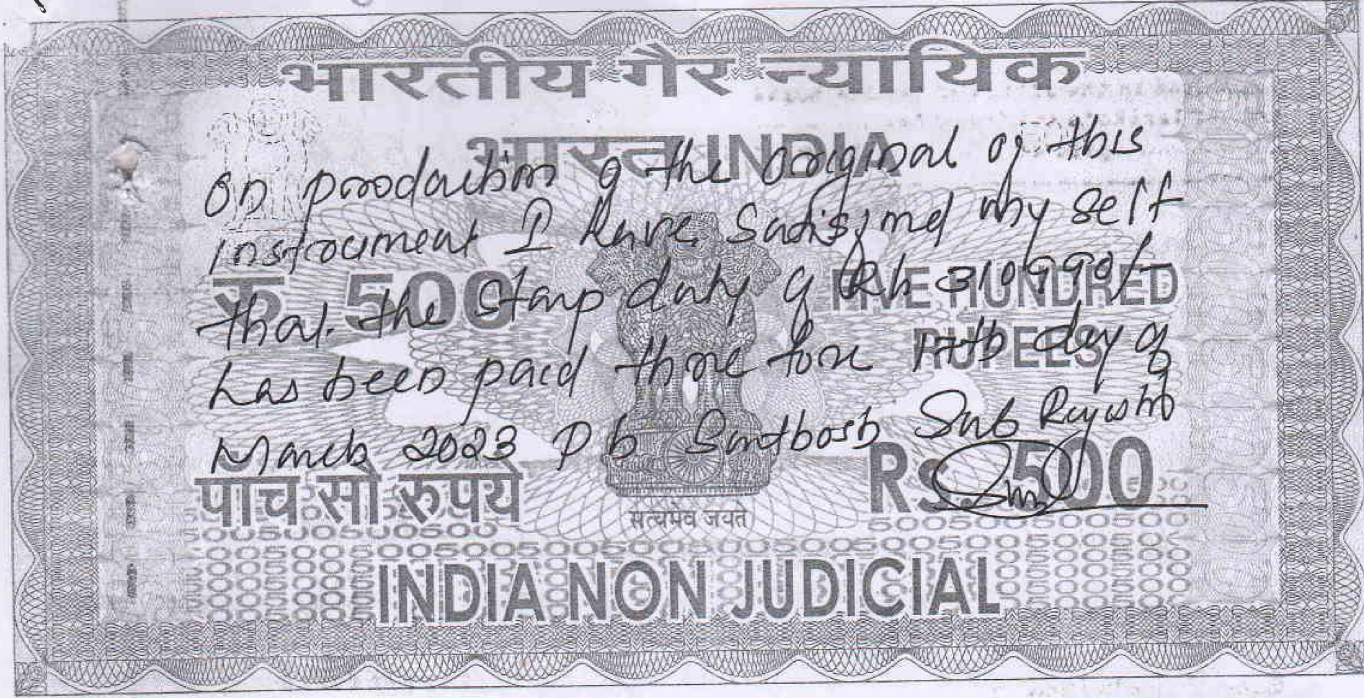
ENVIRONMENTAL ENGINEER



**ANNEXURE 6**  
**QUARRY LEASE**

6942049

811 / 1 / 2023



കേരളം കേരल KERALA

M 625378

**FORM H**  
(See Rule 43)  
**QUARRYING LEASE**

Lessee : Binoy Jose



This deed of lease made on this the 10<sup>th</sup> day of March 2023 between the Governor of Kerala (hereinafter referred to as the "State Government" which expression shall, where the context so admits be deemed to include his successors and assigns) of the one part and Sri. Binoy Jose (Holder of Aadhar No. 2765 2233 0829), S/o, Jose, aged 48 Years, Business, Elavumkal House, Nagapuzha P.O., Nagappuzha Kara, Kallorkad Village, Ernakulam District- 686 668 (hereinafter called the "lessee/ lessees" which expression shall where the context so admits, include his/their heirs, ex-ecutors, administrators, representatives and permitted assigns) of the other part.

Lessor

**Dr. V. SUNIL KUMAR**  
(PEN - 316838)  
GEOLOGIST  
MINING & GEOLOGY DEPT.  
GOVT. OF KERALA

Lessee  
Binoy Jose

Lessee  
Binoy Jose

to 34040

10-3-2023

Binoy Jose,  
Elavumkal (H), Nagappuzha

8/11/2023.

executed in the office of the Sub Registrar of Karikote and fee of Rs. 10.50

with photocopy and

Thumb impression of the Presentor under Section 32A and a fee of Rs 78992/- Paid through EPayment on the 17th day of March 2023 by

P. Jinoj Jose

Residing at Elavumkunnil home

2300 day of March 2023 P. Jinoj Jose

Execution admitted by.

Sub Registrar

(Signature)

P. Jinoj Jose

Sl. Jose Business Registry at Elavumkul home Nagappuzha.

I have satisfied myself the the Execution of this instrument by Mr. V Sunil Kumar Geologist Mining and Geology Dept who is exempted from Personal appearance under Section 88 (i) of Reg. Act



Document No. 61 of 2023 of Book 2  
Sheet 1 of Sheet

(Signature)

Sub Registrar

Witnesseth that in consideration of the rents and royalties and lessee's/ Lessees' covenants, hereinafter reserved and contained the State Government hereby give on lease to the lessee/lessees the land measuring **1.6200** 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 7 (Seven) years commencing from the 15th March 2023 and ending on the 9th March 2030 for the purposes of extracting minor mineral/ minerals and subject to the terms and conditions contained in the Kerala Minor Mineral Concession Rules, 2015 (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** (herein after 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, buildings 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.
2. The lessee/lessees shall during the subsistence of this lease have the liberty to work the said mineral/minerals and remove the same from the leasehold on permits issued by the State Government/competent authority or any other officer authorised by him in this regard. The permits shall be issued only on the basis of pre-paid royalty at the rates specified in Schedule I to these Rules. The royalty rates shall be subject to revision from time to time as the State Government may order.
3. The lessee/lessees shall pay to the State Government a yearly surface rent equal to the land revenue if any, assessable under the rules for the time being in force, or if the land be the property of Government or in reserve forest then equal to the land revenue plus cess, if any, per hectare of the land the surface whereof shall be occupied or used by the lessee/lessees for any of the purposes of this deed and so in proportion for any area less than one hectare. The said surface rent shall be paid by yearly payments; the first of such payments to be made

Lessor

Dr. V. SUNIL KUMAR  
(PEN - 316838)  
GEOLOGIST  
MINING & GEOLOGY DEPT.  
GOVT. OF KERALA

Lessee  
Binoy Jose

Identified by.

1. Anwarjee 810 Rajapur Kachapurambal Bussney Kalasab'
2. Jager K.R w/o subath Kathalikalakka (2) housewife Vengalwood

17th day of March 2023

Pls Sandbosh Sub Registrar



Registered as No. ... of 19 ... of ...  
... ..  
... .. sheet.  
... day of ...

Sub Registrar.

17th day of March 2023

Pls Sandbosh Sub Registrar



on or before the last day of the first year of occupation provided always that no such rent shall be paid or demanded in respect of any roads or ways now in existence.

4. The lessee/lessees shall at all times during the currency of this lease keep correct and intelligible books of account showing accurately the quantity of the said minerals extracted and the weight and value of the said mineral sold or exported together with the names of the purchasers or consignees. The lessee shall also maintain a register of employees showing therein separately men, women employed daily and shall at reasonable times allow the competent authority appointed under the rules (hereinafter referred to as "competent authority") or the officer authorised by him to examine the said books of account and the register of employees and to take copies and extracts there from. The lessee/lessees shall submit reports in Forms F and G on the specified dates.
5. All sums found due under or by virtue of this deed from the lessee/ lessees may be recovered from him jointly and severally from them and his/their properties movable and immovable under the provisions of the Revenue Recovery Act for the time being in force as though such sums are arrears of land revenue or in any other manner as the State Government may deem fit.
6. The lessee/lessees shall at the lessee's/lessees' own expense erect and at all times maintain and keep in repair boundary marks and pillars along the boundaries of the said lands according to the demarcation shown in the plan here to annexed.
7. The lessee shall not carry on or allow to be carried on any quarrying operations at or to any points within a distance of 100 meters from any railway line except with the previous written permission of the railway administration concerned and any bridge on National Highway or 50 meters from any reservoir, tanks, canals, rivers, bridges public roads, other public works, residential buildings, the boundary walls of places of worship, burial grounds or burning ghats or one kilometer from the boundaries of National Park or Wildlife Sanctuaries except with the previous permission of the authorities concerned or the Government or competent authority: Provided that the railway

Lessor

Dr. V. SUNIL KUMAR  
(PEN - 316838)  
GEOLOGIST  
MINING & GEOLOGY DEPT.  
GOVT. OF KERALA

Lessee

Binoy Jose

Faint, illegible text, likely bleed-through from the reverse side of the page.

Document No 811 of 2023 of 2001 2  
8 3 Subst

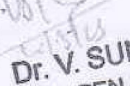



Sub Registrar

administration or the state Government or any other authority in this behalf may in granting such permission impose such other conditions as may be found proper and necessary.

8. The sides of open workings shall be sloped, stepped or secured by the lessee in such a manner as to prevent slope failure, when an open working is worked in steps, steps shall be of sufficient breadth in relation to their height to secure safety. In open workings trees liable to fall and all loose ground and material shall be removed by the lessee sufficiently far from the edge or otherwise made source in order to prevent danger to persons employed in the quarry.
9. If a working place is found to be unsafe all persons shall be withdrawn by the lessee/lessees immediately from the dangerous area and all access to such working place except for the purpose of removing the danger of saving life shall be prevented by securely fencing the full width of all entrances to the place.
10. The lessee/lessees shall at all reasonable times allow any officer authorised by the Central Government or by the State Government in that behalf to inspect the said lands and the buildings and plants erected thereon and the lessee/lessees shall assist such persons in conducting the inspection and afford them all information they may reasonably require, and shall conform to and observe all orders which the Central and State Governments as the result of such inspection or otherwise, may from time to time pass.
11. The lessee shall be responsible for implementing the provisions of the various labour laws applicable, from time to time, to the quarry.
12. The lessee/lessees shall not assign or underlet the said lands or any part thereof or the rights or privileges, therein hereby granted or any of them without the previous permission in writing of the State Government/competent authority.
13. Where the lease or any right, title or interest therein has been assigned, sublet or transferred as provided in rule 45 read with condition 12, then the person in whose favour such assignment, sublease or transfer has been made shall be

Lessor

  
Dr. V. SUNIL KUMAR  
(PEN - 316838)  
GEOLOGIST  
MINING & GEOLOGY DEPT.  
GOVT. OF KERALA

Lessee  
Binoy Jose 

Faint, illegible text, likely bleed-through from the reverse side of the page.

Document No. 811 of 2023 of Page 1  
Page 8 of 8 Sheets

See Registrar

Faint text at the bottom left corner, possibly a date or reference number.

responsible for implementing the provisions of the various labour laws applicable, from time to time, to the quarry.

14. The lease may be surrendered by the lessee/lessees at any time after 3 months notice in writing to the State Government/competent authority: Provided the lessee/lessees has/have paid all sums due on account of the lease: Provided further that if the lessee/lessees elects/elect to determine this lease before the expiry of the term of the lease, shall pay in addition to other dues a sum equal to the dead rent payable for the remaining part of the term of the lease deed.
15. If the lessee/lessees shall be desirous of taking a further lease of the said lands for a further term, he/they shall give three months' previous notice in writing of such desire to the State Government/competent authority and if the lessee/lessees has/have duly observed all the conditions of this lease, the State Government/competent authority may agree to renew the lease for such further term and on such terms and conditions as the State Government/competent authority may determine which shall be in accordance with the provisions of these rules.
16. If the lessee/lessees shall at any time during the said term use the said lands or any part thereof in any manner other than as authorized by this lease or fail to carry on quarrying operations continuously without sufficient cause of which the State Government/competent authority shall be the judge or shall commit a breach of any of the conditions of this lease it shall be lawful for the State Government/competent authority to cancel this lease and take possession of the said lands or the alternative to receive from the lessee/lessees such penalty not exceeding Rs. 25,000/- (Rupees Twenty Five Thousand only) for the breach as the State Government/competent authority may fix.
17. If at the expiration of three calendar months after the expiry of the lease or its sooner determination, there shall remain in or the said lands, any engines, machinery, plant, buildings, structures and other works, erections and conveniences, the said minerals or other property which the lessee is/lessees are entitled to remove

Lessor

*Dr. V. Sunil Kumar*  
Dr. V. SUNIL KUMAR  
(PEN - 316838)  
GEOLOGIST  
MINING & GEOLOGY DEPT.  
GOVT. OF KERALA


Lessee  
Binoy Jose

Faint, illegible text at the top of the page, possibly bleed-through from the reverse side.

Faint, illegible text in the middle section of the page.

Faint, illegible text in the lower middle section of the page.

Document No. 811 2023  
Page 5 of 5



Sub Registrar


Faint text at the bottom left of the page.


Faint text at the bottom right of the page.

from the said lands, the same shall, if not removed by the lessee/lessees within one calendar month after notice in writing requiring their removal be given to the lessee/lessees by the State Government/ competent authority be deemed to become the property of the State Government in such manner as they may deem fit without liability to pay any compensation or to account to the lessee/lessees in respect thereof.

18. This lease subject to all rules and regulations which may from time to time be issued by the State Government regulating the working of the quarries and other matters affecting safety, health and convenience of the lessee's/lessees' employees or of the public, whether under the Indian Mines Act or otherwise.
19. The lessee/lessees shall without delay send to the District Collector and the competent authority or the officer authorised by him in this regard report of any accident causing loss of life or serious bodily injuries or seriously affecting or endangering life or property which may at any time occur at or in the said lands in the course of operations under this lease.
20. The lessee/lessees shall furnish such reports and returns relating to output, labourers employed and other matters as the State Government may prescribe.
21. The lessee/lessees shall make and pay such reasonable compensation as may be assessed by lawful authority in accordance with the law in force on the subject for all damage, injury or disturbance which may be done by him/them in exercise of the powers granted by this lease and shall indemnify and shall keep indemnified fully and completely the State Government against all claims which may be made by any person or persons in respect of any such damage, injury or disturbance and all costs and expenses in connection therewith.
22. Any condition prescribed in the Kerala Minor Mineral Concession Rules, 2015 but left out in this lease which may be found applicable to the lessee/lessees shall be treated as binding on the lessee/lessees.

Lessor

  
Dr. V. SUNIL KUMAR  
(PEN - 316838)  
GEOLOGIST  
MINING & GEOLOGY DEPT.  
GOVT. OF KERALA

Lessee  
Binoy Jose 

Faint, illegible text at the top of the page, possibly bleed-through from the reverse side.

Faint, illegible text in the upper middle section of the page.

Faint, illegible text in the middle section of the page.

Faint, illegible text in the lower middle section of the page.

Faint, illegible text in the lower section of the page.

Document No. 811 of 2025 of Book 2  
8 of 8 of 8

Sub Register:

Faint, illegible text at the bottom of the page, possibly bleed-through from the reverse side.




The Board of Directors of the Corporation has approved the following resolution:
   
 That the Board of Directors of the Corporation do hereby authorize the President of the Corporation to execute and deliver to the Secretary of the State of New York a Certificate of Incorporation for the Corporation, together with the fees thereon, and to do all things necessary and proper to cause the Corporation to be duly organized under the laws of the State of New York.
   
 Passed and approved at a meeting of the Board of Directors of the Corporation, held on the 8th day of August, 2023, at New York, New York.

**STATE OF NEW YORK**

In SENATE, January 11, 2023.
   
 In ASSEMBLY, January 11, 2023.

| Item         | Amount        | Total         |
|--------------|---------------|---------------|
| 1. State     | 100.00        | 100.00        |
| 2. Local     | 0.00          | 0.00          |
| 3. Other     | 0.00          | 0.00          |
| <b>Total</b> | <b>100.00</b> | <b>100.00</b> |

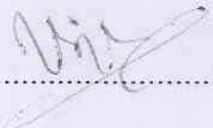
Approved by the Board of Directors on August 8, 2023.
   
 Approved by the Board of Directors on August 7, 2023.

Registrar 

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |

State of New York
   
 Albany, New York

In witness whereof the parties hereto have signed on the date and year first above written.

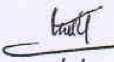
Signed by.....

For and on behalf of the Governor of Kerala.  
In the presence of

(1) Praveen Kurian Thomas  
Asst. Geologist  
Dept of Mining and Geology  
Dist. office Edulabi

  
10/03/23

(2) K.V. Michael, Mineral Revenue Inspector  
Dept of Mining & Geology, Dist Office  
Edulabi, Theedupurha

  
10/3/23

Signed by.....

For and on behalf of the lessee/lessees  
In the presence of


(1) Jissmon George  
Katakallil (A)  
Parakkode



(2) ABRAHAM GEORGE  
Edavakandathil house  
Narakadu. P O



Lessor

  
Dr. V. SUNIL KUMAR  
(PEN - 316838)  
GEOLOGIST  
MINING & GEOLOGY DEPT.  
GOVT. OF KERALA

Lessee  
Binoy Jose



Duplicate 1 : there is no difference B/w  
Original and duplicate

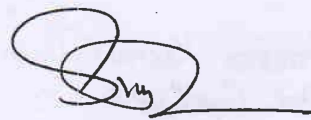
there is no correction on this

Compared  
By

Reader : Lincy Grace Sr. Clerk &

Examiners : Anjalethy. R. S., Clerk, Anjalethy

17th day of March  
2023



P. G. Santhosh

Sub. Registrar.

6/11 2023 2  
8 8 8

Sub Registrar



**ANNEXURE 7**  
**NEWSPAPER**  
**ADVERTISEMENT**



റിസർവ് ബാങ്കിന്റെ പിന്തുണയോടെ റിസർവ് ബാങ്ക് ഇന്നോവേഷൻ ഹബ്ബിനായി സിദ്ധിച്ച സംയോജനം തമിഴ്നാട് സർക്കാരിന് ചേർന്നാണ് നടപ്പിലാക്കിയത്. തമിഴ്നാട്ടിലെ എല്ലാ ജില്ലകളിലും ഗ്രാമീണ സാമ്പത്തിക സേവനങ്ങൾ ഡിജിറ്റലാക്കി റിസർവ് ബാങ്ക് ഒഫ് ഇന്ത്യ ഫെഡറൽ ബാങ്കിനെ പങ്കാളിയായി നേരത്തെ പദ്ധതി പ്രഖ്യാപിച്ചിരുന്നു.

ഇതിന്റെ ആദ്യഘട്ടമായാണ് ഫെഡറൽ ബാങ്ക് കർഷകർക്കായി ഇൻസ്റ്റാൻ്റ് കെ.സി.സി അവതരിപ്പിച്ചത്. ചെറുകിട കർഷകർക്കും മധ്യമേഖല സേവനം ലഭ്യമാക്കുന്നതിനായി നേരത്തെ പദ്ധതി പ്രഖ്യാപിച്ചിരുന്നു. തമിഴ്നാട്ടിലെ ജനങ്ങൾക്കും ചെറിയ തുകയുടെ വായ്പകൾ നൽകുന്നതിലൂടെ ലഭ്യമാക്കുന്ന കർഷക വായ്പാ രംഗത്ത് ഇ



ഫെഡറൽ ബാങ്കിന്റെ ഇൻസ്റ്റാൻ്റ് കിസാൻ ക്രെഡിറ്റ് കാർഡ് പദ്ധതി ഉദ്ഘാടനച്ചടങ്ങിൽ

ത്തരത്തിലുള്ള ആദ്യ ഡിജിറ്റൽ വായ്പാ പദ്ധതിയാണിത്.

തമിഴ്നാട്ടിൽ ഫെഡറൽ ബാങ്ക് ഈ പദ്ധതി ആരംഭിക്കുന്നതോടെ കർഷകർക്ക് ഏറ്റവും വേഗത്തിൽ ലളിതമായി വായ്പകൾ ലഭ്യമാക്കാനുള്ള അവസരങ്ങൾ തുറന്നിരിക്കുകയാണെന്നും പദ്ധതി വിജയകരമാകുന്നതോടെ രാജ്യത്തുടനീളം നടപ്പിലാക്കുകയാണ്

ലക്ഷ്യമെന്നും റിസർവ് ബാങ്ക് ഇന്നോവേഷൻ ഹബ്ബി.ഇ.ഒ. രാജേഷ് ബൻസൽ പറഞ്ഞു.

അതിവേഗത്തിൽ വായ്പകൾ ലഭ്യമാക്കുന്ന തലത്തിലേക്ക് സഹായം ലഭിക്കുന്നതിനായി സാമ്പത്തിക സേവന മന്ത്രാലയം പദ്ധതിയെ ന്ന് ഫെഡറൽ ബാങ്ക് എം.ഡിയു സി.ഇ.ഒയുമായ ശ്യാം ശ്രീനിവാസൻ പറഞ്ഞു.

**CHANGE OF NAME**  
ALDRIYA THUNDIPARAMBIL PATRICK, THUNDIPARAMBIL (H) THOPPUMPADY P.O. ERNAKULAM, KERALA 682005 as per my passport number (1499949) do hereby change my name to ALDRIYA PATRICK (as per my nyaadharnumber 730237639573)

**അറിയിപ്പ്**  
ഇടുക്കി ജില്ല, തൊടുപുഴ താലൂക്ക്, ആലക്കോട് വില്ലേജ്, ബ്ലോക്ക് നമ്പർ 32-ൽ സർവ്വെ 336/3-3, 336/3-4, 395/1-ൽ ഷെട്ട സ്ഥലത്ത് പാറ ഖനനം ചെയ്യുന്നതിനായി ശ്രീ. ബിനോയി ജോസ്, ഇലവങ്കൽ വീട്, നാഗപ്പുഴ പി.ഒ, എന്ന എനിക്ക് സംസ്ഥാന പരിസ്ഥിതി ആഘാത വിലയിരുത്തൽ അതോറിറ്റി തയ്യാറാക്കിയ തീരുമാനപത്രം ഇ.സി. നമ്പർ 122Q/2022 - നമ്പർ ആയി എനിക്ക് അനുമതി ലഭിച്ചതായി അറിയിക്കുന്നു.



**സ്ഥാപന വസ്തുക്കളുടെ**  
സെക്യൂരിറ്റൈസേഷൻ ആന്റ് റി കൺസ്ട്രക്ഷൻ ഓഫ് ഫിനാൻഷ്യൽ അസറ്റസ് ആന്റ് എൻഫോഴ്സ്മെന്റ് ഓഫ് സെക്യൂരിറ്റി ഇൻഫോഴ്സ്മെന്റ് റൂൾസ് 2002 വസ്തുവിന്റെ ഇ-ലേല വിൽപന നോട്ടീ ഇൻഡ്യാൻ ബാങ്ക്, ആലുവ മെട്രോ സ്റ്റേഷൻ കോളനിയിലുള്ള സ്ഥാപന വസ്തു സ്ഥലം, വായ്പക്കാരായ (1) M/s ഫാരിസ് കുന്നത്തേരി ഇംഗ്ലീഷ്, തായിക്കോട്ടുകര, (പ്രൊപ്രൈറ്റർ/വായ്പക്കാരൻ) S/o അബ്ദു തായിക്കോട്ടുകര പി.ഒ, എറണാകുളം-68 W/o കെ.എ. സുധീർ, കർപ്പായി ഹ എറണാകുളം-683101 എന്നിവർ കൂടി കോളനിയിലുള്ള സ്ഥാപന വസ്തു കൈമാറ്റക്കാരെ പൊതു ജനങ്ങളെ പൊതു ജാമ്കാരെ നിന്നും ഇൻഡ്യാൻ ബാങ്ക് അതോറിറ്റി 16-09-2022ലെ കൂടിയിരിക്കുന്ന മൂല്യത്തിൽ പരിധിയിൽ എഴുത്തുപത്രം ഉപയോഗിച്ച് വിൽപന വസ്തുക്കൾ ഇപ്പോൾ എവിടെയെ സ്ഥാപന വസ്തുക്കൾ വിൽപന എന്നതിന്റെ അടിസ്ഥാനത്തിൽ വിൽപന വസ്തുവിന്റെ വിവരങ്ങൾ താഴെ

സ്ഥാപന വസ്തുവിന്റെ വിവരങ്ങൾ: ചുരുങ്ങിയത് വില്ലേജ് പ്രായ ആലുവ 17/5 ൽ ഷെട്ട ശ്രീ. കെ.എ. സുധീറിനെ



**തൃപ്പൂണിത്തുറ ശാഖ**  
ശ്രേണി സെർ, ഹോസ്പിറ്റൽ റോഡ്, തൃപ്പൂണിത്തുറ, എറണാകുളം, -682301, Ph: 0484-2777232, E-mail: vjtrth@bankofbaroda.co.in

**കൈവശാവകാശ നോട്ടീസ്** (സ്ഥാപന വസ്തുവിന് വേണ്ടി) [See rule 8(1)]  
സെക്യൂരിറ്റൈസേഷൻ ആന്റ് റി കൺസ്ട്രക്ഷൻ ഓഫ് ഫിനാൻഷ്യൽ അസറ്റസ് ആന്റ് എൻഫോഴ്സ്മെന്റ് ഓഫ് സെക്യൂരിറ്റി ഇൻഫോഴ്സ്മെന്റ് റൂൾസ് 2002 പ്രകാരം അധികാരം കിട്ടിയ ഇ ബാങ്ക് ഓഫ് ബറോഡയുടെ ഉദ്യോഗസ്ഥൻ എന്ന നിലയിൽ സെക്യൂരിറ്റി ഇൻഫോഴ്സ്മെന്റ് റൂൾസ് 2002 സെക്ഷൻ 13(12), റൂൾ 3 പ്രകാരം വായ്പക്കാരായ റിമതി. ഷീജ ശങ്കർകുമാർ (അഥവാ ഷീജ പി. വി) & ശ്രീ. ശങ്കർകുമാർ. കെ.സി. എന്നിവർക്ക് കൂടിയിരിക്കുന്ന തുകയായ രൂപ 6,21,713.80 (ആറ് ലക്ഷത്തി ഇരുപത്തി ഒരായിരത്തി എഴുത്തുനൂറ്റി മൂന്നു രൂപ എൺപത് പൈസ മാത്രം) യും പലിശയും മറ്റ് ചെലവുകളും 60 ദിവസത്തിനകം ലഭ്യമാക്കുന്നതിന് ഒരു വിമാൻ നോട്ടീസ് 04-07-2022 ൽ അയച്ചിരുന്നു.

**ANNEXURE 8**  
**VIBRATION STUDY**  
**REPORT**

# Vibration Study Report

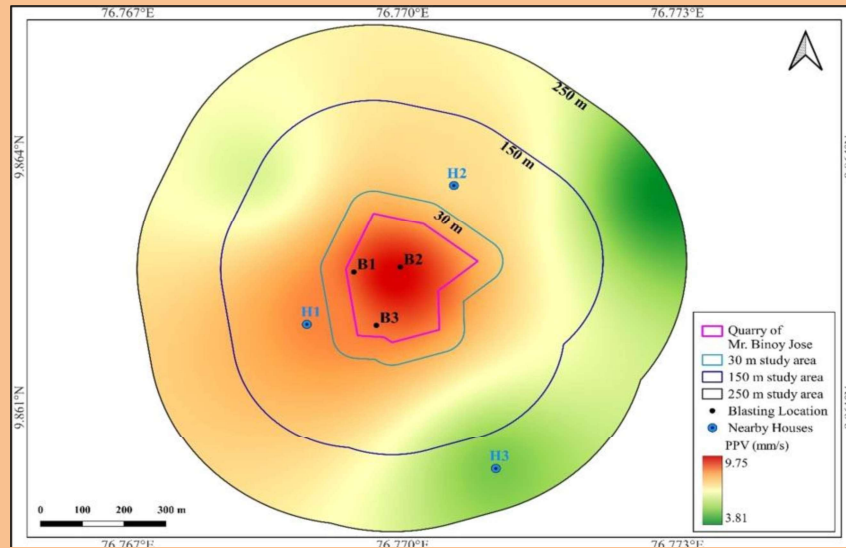
for

## Granite Building Stone Quarry

of

### Mr. Binoy Jose

Alakode Village, Thodupuzha Taluk, Idukki District, Kerala State



Project Proponent

**Mr. Binoy Jose**

Elavumkal Veedu, Nagapuzha P. O.

Ernakulam, Kerala – 686 668

Prepared by



**ENVIRONMENTAL CONSULTANCY AND LABORATORY**

*A QCI-NABET Accredited Environmental Consulting Organization*

Unit No. 206, 224, 225 Jai Commercial Complex, Eastern Express Highway,

Opposite Cadbury Factory, Khopat, Thane (West) – 400 061

Tel: 022 2534 2776, 0484 4301947, Fax: 022 25429650, Email: [kochi@ultratech.in](mailto:kochi@ultratech.in), Website: [www.ultratech.in](http://www.ultratech.in)



Certificate No.: NABET/EIA/2023/RA 0194\_Rev 01; Valid till October 18, 2024

|  |  |
|--|--|
| Report Number: UT/KOCHI/VSR/2023/048   | Laboratory involved: M/s. ENVIRODESIGNS ECO LABS       |
| Study Period: December, 2023   | NABL Certificate No.: TC-71 14, valid up to 18.10.2025 |
| Report Released by: Ms. Ananthitha A<br>In the capacity of: General Manager, ULTRA TECH, Kochi |  |

December 2023

***Vibration Study Report for Granite Building Stone Quarry of Mr. Binoy Jose at Alakode Village,  
Thodupuzha Taluk, Idukki District, Kerala***

| <b><i>Document Details</i></b>  |   |
|---------------------------------|---|
| <b><i>Document Title</i></b>    | <b><i>: Vibration Study Report of Granite Building Stone Quarry of Mr. Binoy Jose,<br/>Alakode Village, Thodupuzha Taluk, Idukki District, Kerala</i></b> |
| <b><i>Document Subtitle</i></b> | <b><i>: Final Report</i></b>  |
| <b><i>Report No.</i></b>        | <b><i>: UT/KOCHI/VSR/2023/048</i></b>   |
| <b><i>Date</i></b>              | <b><i>: 20.12.2023</i></b>  |
| <b><i>Version</i></b>           | <b><i>: R1</i></b>  |
| <b><i>Author</i></b>            | <b><i>: ULTRA TECH Environmental Consultancy &amp; Laboratory and M/s<br/>Travancore Geotech</i></b>  |
| <b><i>Client Name</i></b>       | <b><i>: Mr. Binoy Jose</i></b>  |

| <b><i>Document History</i></b> |                        |  |   |                          |
|--------------------------------|------------------------|--|---|--------------------------|
| <b><i>Version</i></b>          | <b><i>Revision</i></b> | <b><i>Author</i></b>   | <b><i>Reviewed by</i></b>                       | <b><i>Date</i></b>       |
| <b><i>Draft</i></b>            | <b><i>R0</i></b>       | <b><i>Ms. Ananthitha A<br/>Mr Aneesh K<br/>Ms. Farsana Nazrin V B<br/>Ms. Ambily U S<br/>Ms. Shahana Yonus</i></b> | <b><i>Mr V K Roy and<br/>Mr. Arun Kumar</i></b> | <b><i>16.12.2023</i></b> |
| <b><i>Final</i></b>            | <b><i>R1</i></b>       | <b><i>Ms. Ananthitha A<br/>Mr Aneesh K<br/>Ms. Farsana Nazrin V B<br/>Ms. Ambily U S</i></b>                       | <b><i>Mr V K Roy and<br/>Mr. Arun Kumar</i></b> | <b><i>20.12.2023</i></b> |

*Vibration Study Report for Granite Building Stone Quarry of Mr. Binoy Jose at Alakode Village,  
Thodupuzha Taluk, Idukki District, Kerala*

## Contents

|  |     |
|--|-----|
| List of Tables.....  | iii |
| List of Figures .....  | iii |
| List of Annexures .....  | iv  |
| Abbreviations .....  | v   |
| Executive Summary .....  | vi  |
| Chapter 1. Introduction .....  | 1   |
| 1.1. Overview .....  | 1   |
| 1.2. Project Description.....  | 2   |
| 1.3. Objectives.....   | 3   |
| Chapter 2. Approach and Methodology.....   | 4   |
| 2.1. Considerations of Site Selection .....  | 4   |
| 2.2. Reconnaissance Survey & Identification of Locations for Vibration Study ..... | 4   |
| 2.3. Structure of Importance.....  | 5   |
| 2.4. Location Details .....  | 5   |
| 2.5. Blasting Technique.....   | 6   |
| 2.5.1. <i>NONEL Initiation for Eco-friendly Blasting</i> .....                     | 6   |
| 2.5.2. <i>Blast Hole Drilling &amp; Blasting Initiation</i> .....                  | 7   |
| 2.6. Measurement of Ground Vibration .....   | 9   |
| 2.7. Results & Data Interpretation.....  | 10  |
| 2.7.1. <i>Zone of Influence</i> .....  | 10  |
| Chapter 3. Conclusion & Recommendation .....                                       | 12  |
| 3.1. Conclusion.....   | 12  |
| 3.2. Recommendation.....   | 12  |

*Vibration Study Report for Granite Building Stone Quarry of Mr. Binoy Jose at Alakode Village,  
Thodupuzha Taluk, Idukki District, Kerala*

**List of Tables**

|   |    |
|---|----|
| Table 1.1: Project Details.....                                       | 2  |
| Table 2.1: Location Details of Blasting & Vibration Measurement ..... | 5  |
| Table 2.2: Permissible PPV (mm/s) as per DGMS, India .....            | 10 |
| Table 2.3: Results of Vibration Measurement.....                      | 10 |

**List of Figures**

|   |    |
|---|----|
| Figure 1.1: Google Earth Imagery of the Project Location .....                            | 1  |
| Figure 1.2: Site Photographs .....  | 2  |
| Figure 2.1: Methodology for Preparation of Vibration Study Report .....                   | 4  |
| Figure 2.2: Photographs of Reconnaissance Survey .....                                    | 4  |
| Figure 2.3: Photograph of the Nearest Houses.....   | 5  |
| Figure 2.4: Google Earth Imagery showing Blasting & Vibration Measurement Locations ..... | 6  |
| Figure 2.5: Images of NONEL Blasting.....   | 7  |
| Figure 2.6: Photographs of Magazine & Explosives used for Blasting .....                  | 8  |
| Figure 2.7: Photographs of Blasting Location.....   | 9  |
| Figure 2.8: Photographs of Ground Vibration Measurement.....                              | 9  |
| Figure 2.9: Map of Zone of Influence .....  | 11 |

*Vibration Study Report for Granite Building Stone Quarry of Mr. Binoy Jose at Alakode Village,  
Thodupuzha Taluk, Idukki District, Kerala*

**List of Annexures**

| <b>Annexure No.</b> | <b>Annexure</b>                                |
|---------------------|--|
| Annexure - 1        | Copy of Quarrying Lease                        |
| Annexure - 2        | Copy of EC Letter                              |
| Annexure - 3        | Certificate of RQP involved in Vibration Study |
| Annexure - 4        | NABET Certificate of EIA Consultant            |
| Annexure - 5        | NABL Certificate of Laboratory                 |
| Annexure - 6        | Copy of Explosive License                      |
| Annexure - 7        | Calibration Certificate of Vibration Meter     |
| Annexure - 8        | Copy of Vibration Monitoring Report            |

*Vibration Study Report for Granite Building Stone Quarry of Mr. Binoy Jose at Alakode Village,  
Thodupuzha Taluk, Idukki District, Kerala*

## Abbreviations

| Abbreviation | - | Description   |
|--------------|---|---|
| DGMS         | : | Directorate General of Mines Safety                                   |
| EC           | : | Environmental Clearance   |
| IDW          | : | Inverse Distance Weighted   |
| MoEF&CC      | : | Ministry of Environment Forest & Climate Change                       |
| NABET        | : | National Accreditation Board for Education and Training               |
| NABL         | : | National Accreditation Board for Testing and Calibration Laboratories |
| NONEL        | : | Non-electric  |
| OM           | : | Office Memorandum   |
| PPV          | : | Peak Particle Velocity  |
| RQP          | : | Registered Qualified Person   |

## **Executive Summary**

- The project of 'Granite Building Stone Quarry of Mr. Binoy Jose' is over an extent of 1.6200 ha located at Re-Survey No. 336/3-3, 336/3-4 & 395/1 at Alakode Village, Thodupuzha Taluk, Idukki District, Kerala State. The project falls under Category B2. They have been granted mining lease for a period of 7 years from 10.03.2023 to 09.03.2030.
- Environmental Clearance (EC) is obtained for this mining lease vide EC Identification no. EC22B001KL147310 dated 01.09.2022.
- As per the letter from Mining and Geology Department District Office, Idukki vide letter no. DOIDU-DMG/183/2023-M dated 27.11.2023; it was directed to conduct vibration studies to evaluate the zone of influence and impact of blasting on the neighborhood as per Office Memorandum (OM) No. Z-11013/57/2014-IA. II (M) dated 29.10.2014 of Ministry of Environment, Forest & Climate Change (MoEF&CC).
- Vibration study was conducted by the National Accreditation Board for Education and Training (NABET) accredited EIA consultant M/s ULTRA TECH Environmental Consultancy and Laboratory, Registered Qualified Person (RQP) Mr. V K Roy and National Accreditation Board for Testing and Calibration Laboratories (NABL) accredited and MoEF&CC recognized Environmental Monitoring Laboratory M/s Envirodesigns Eco Labs on 06.12.2023.
- A reconnaissance survey was conducted by the study team to understand the site-specific conditions such as topsoil thickness, presence of exposed outcrop, rock continuity, stability of rock slopes, nearest infrastructure etc., and to identify the locations of blasting and the locations for measuring the vibrations with calibrated Vibration Meters (calibration valid up to 19.04.2024).
- The blasting conducted during this study was designed to simulate the actual blasting during the quarry operations.
- Based on the site conditions and the proximity of the nearest residences (nearest residence 64 m from BP 3), a total of three locations where outcrop of granites is clearly visible was selected for the measurement of corresponding vibrations during the blasting. These locations are, (1) nearest residential building on NW side at a distance of 64.0 m from BP 3, (2) nearest residential building on the NE side at a distance of 67.0 m from BP 6 and (3) residential building on SSE side at a distance of 185 m from BP 9.
- At every blasting location, a total of 15 blast holes were drilled mechanically, each of diameter 32 mm and 1.5 m depth in a row. Spacing between each blast hole was kept 1.2 m. Individual cartridges with a 25 mm diameter and weight of explosive of 250 g were used to fill each blast hole. 2 cartridges were used for each blast hole.
- Non-electric (NONEL) short delay detonators were used for blasting and from each blasting location, vibration measurements were taken at one location using Vibration Meter VB-8205 HTC. Peak Particle Velocity (PPV) for various blasts in terms of ground vibration were recorded along with distances from blasting location.

*Vibration Study Report for Granite Building Stone Quarry of Mr. Binoy Jose at Alakode Village,  
Thodupuzha Taluk, Idukki District, Kerala*

- Maximum PPV recorded was 7.59 mm/s at a distance of 90 m from blasting location B1. Maximum PPV was found to be less than 15 mm/sec, which is the safe PPV defined by Directorate General of Mines Safety (DGMS) for Domestic Houses (Brick/Cement).
- Zone of influence is identified using QGIS by plotting Inverse Distance Weighted (IDW) interpolation tool. An area of 250 m radius from the project boundary was taken, where three houses were considered. According to the map, the PPV varied within a 250 m radius around the project site, ranging from 3.81 mm/s to 9.75 mm/s. It also shows that the impact of ground vibration at a radius of 30 m is within the permissible limit as per DGMS.
- With the recommended blast hole depth of 1.5 m and 32 mm diameter, maximum of 250 g of explosive with NONEL technology the effect of vibration can be controlled within 50.0 m from the blasting site. Additionally, it should be emphasized that the NONEL blasting approach significantly reduced the ground vibration while having little to no impact on the neighboring built-up structures.

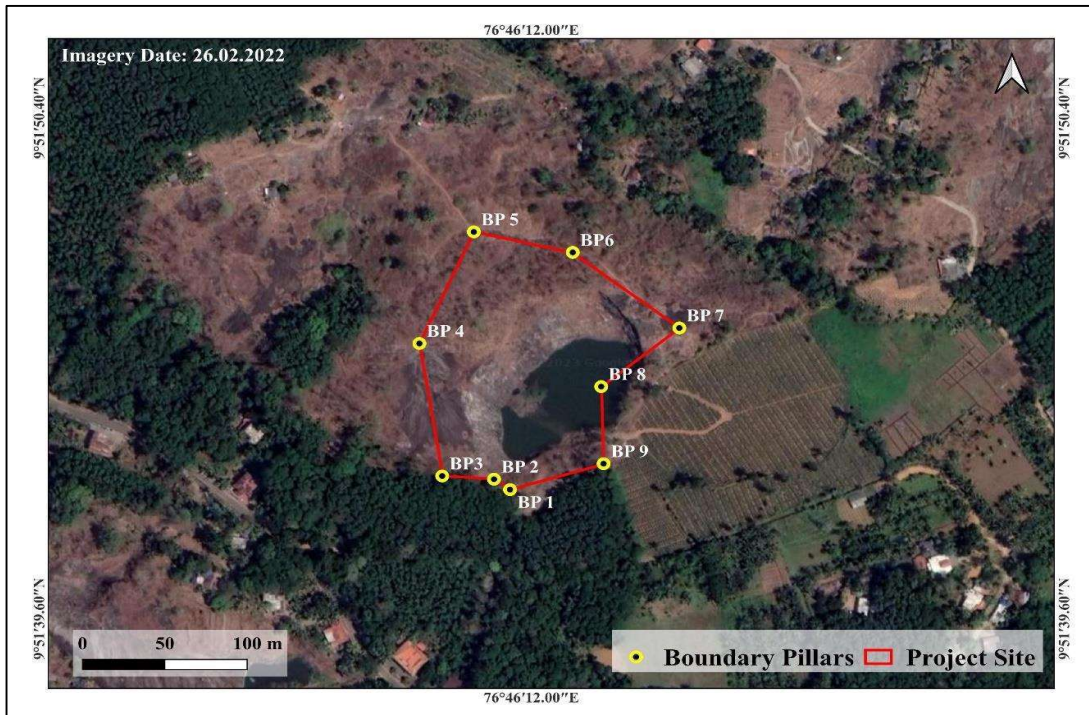
## Chapter 1. Introduction

### 1.1. Overview

This Vibration Study Report has been prepared for the operational Granite Building Stone Quarry of Mr. Binoy Jose, having an area of 1.6200 ha is located at Re-Survey No. 336/3-3, 336/3-4 & 395/1 at Alakode Village, Thodupuzha Taluk, Idukki District, Kerala State.

Mining lease has been granted for a period of 7 years from 10.03.2023 to 09.03.2030. Quarrying lease is attached as Annexure - 1. EC is obtained for this mining lease vide EC Identification no. EC22B001KL147310 dated 01.09.2022. EC letter is attached as Annexure - 2.

Google earth imagery showing the project location is given in Figure 1.1 and site photographs are given in Figure 1.2.



*Figure 1.1: Google Earth Imagery of the Project Location*



*Project Site*

**Vibration Study Report for Granite Building Stone Quarry of Mr. Binoy Jose at Alakode Village, Thodupuzha Taluk, Idukki District, Kerala**



Access Road of width 7 m



Sign Boards

Figure 1.2: Site Photographs

**1.2. Project Description**

Details of the project is given in Table 1.1.

Table 1.1: Project Details

| S. No. | Particulars                                  | Description   |
|--------|--|---|
| 1.     | Latitude                                     | 9°51'42.38"N to 9°51'42.94"N  |
| 2.     | Longitude                                    | 76°46'11.58"E to 76°46'13.44"E  |
| 3.     | Geological Reserves                          | 14,24,360 T   |
| 4.     | Mineable Reserves                            | 8,29,227 T  |
| 5.     | Life of mine                                 | 7.4 years   |
| 6.     | Method of mining                             | Opencast, semi-mechanized method  |
| 7.     | Maximum elevation difference prior to mining | 106 m AMSL – 78 m AMSL = 28 m   |
| 8.     | Maximum elevation difference after mining    | 105 m AMSL – 60 m AMSL = 45 m   |
| 9.     | Depth of mining                              | 45 m  |
| 10.    | Ultimate pit level                           | 60 m  |
| 11.    | Total number of benches                      | 12  |
| 12.    | Bench height, width                          | Bench height & width = 5 m x 5 m  |
| 13.    | Drainage direction                           | Towards south-west direction  |
| 14.    | Water requirement                            | Total water requirement = 17 kLD <ul style="list-style-type: none"> <li>• Domestic purposes : 2 kLD</li> <li>• Dust suppression : 12 kLD</li> </ul> |

*Vibration Study Report for Granite Building Stone Quarry of Mr. Binoy Jose at Alakode Village, Thodupuzha Taluk, Idukki District, Kerala*

| S. No. | Particulars             | Description  |
|--------|-------------------------|--|
|        |                         | • Afforestation : 3 kLD  |
| 15.    | Water source            | For domestic purposes water is purchased and for other purposes water met from nearby open well. |
| 16.    | Total number of workers | 35   |

### 1.3. Objectives

Main objectives of this Vibration Study are the following:

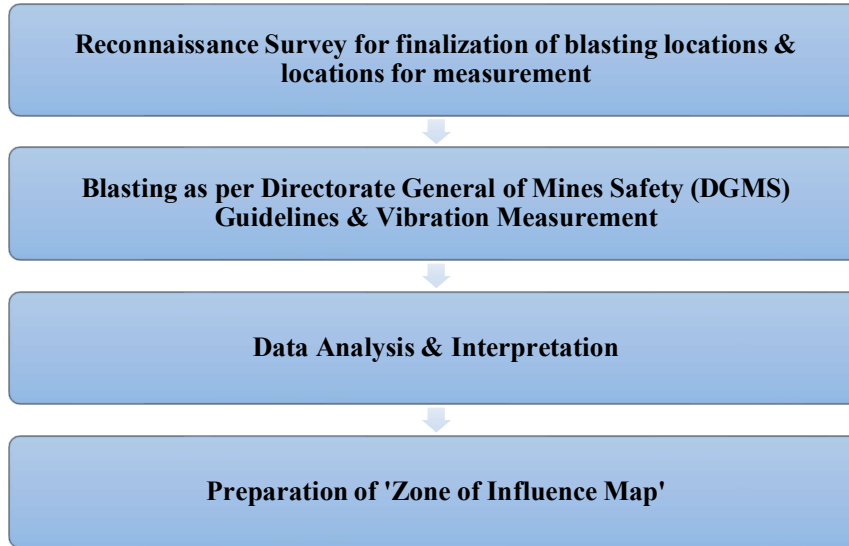
- To evaluate the zone of influence.
- To evaluate the impact of blasting on neighbourhood.
- To suggest suitable guidelines for minimizing the impacts, if any

To achieve these objectives, blasting study for vibration monitoring was planned and executed by the NABET accredited EIA consultant M/s ULTRA TECH Environmental Consultancy and Laboratory along with Mr. V K Roy (RQP) and his team of engineers from M/s Travancore Geotech. RQP Certificate of Mr. V. K. Roy is attached as Annexure – 3 and NABET certificate of EIA consultant is attached as Annexure - 4.

The measurement of vibration was taken by NABL accredited and MoEF&CC recognized Environmental Monitoring Laboratory M/s Envirodesigns Eco Labs. NABL certificate of the lab is attached as Annexure - 5.

## Chapter 2. Approach and Methodology

Methodology formulated for the preparation of Vibration Study Report for the proposed project is given in Figure 2.1.



*Figure 2.1: Methodology for Preparation of Vibration Study Report*

### 2.1. Considerations of Site Selection

Before choosing the locations, it was taken into account that the topsoil thickness, rock continuity is varying in different locations of the project site, stability of rock slopes, nearest infrastructure etc. Rock continuity was noted as it may cause errors during monitoring. Hence, the locations are selected where topsoil was absent and an outcrop was present to avoid likelihood of monitoring errors.

### 2.2. Reconnaissance Survey & Identification of Locations for Vibration Study

Reconnaissance survey was carried out to identify nearest houses/infrastructures for the finalization of blasting and vibration monitoring locations. The area is non-forest and outcrop of granite at some places. It was observed that the nearest infrastructure is located at a distance of 64 m from BP 3 which is the House of Ms. Jemini. Photographs of reconnaissance survey is given in Figure 2.2.



*Figure 2.2: Photographs of Reconnaissance Survey*

## Vibration Study Report for Granite Building Stone Quarry of Mr. Binoy Jose at Alakode Village, Thodupuzha Taluk, Idukki District, Kerala

A total of three locations where outcrop is present and top soil is absent were selected for blasting. One location for each blasting location were selected for vibration measurement at nearest house from the blasting location. Vibration study was conducted on 06.12.2023.

### 2.3. Structure of Importance

Three nearest houses were taken as vibration measurement locations. Photographs of the same is attached as Figure 2.3.



(64 m from BP 3)  
House of Ms. Jemini  
Kalingikal (H)  
Alakode Panchayath  
House No. 64  
Ward No. 6

(67 m from BP 6)  
House of Mr. Kunjappan  
Olippurath (H)  
Alakode Panchayath  
House No. 39  
Ward No. 6

(185 m from BP 9)  
House of Mr. Jhonson  
Panankkat (H)  
Alakode Panchayath

**Figure 2.3: Photograph of the Nearest Houses**

### 2.4. Location Details

Details of the locations for blasting (B1, B2 and B3) and vibration measurement (M1, M2 & M3) are given in Table 2.1 and Figure 2.4.

**Table 2.1: Location Details of Blasting & Vibration Measurement**

| Blasting Location |                               |                    | Location for Vibration Measurement |                    |                               |
|-------------------|-------------------------------|--------------------|------------------------------------|--------------------|-------------------------------|
| Location Code     | Geographic Coordinates        | Elevation (m AMSL) | Distance from Blasting Location    | Elevation (m AMSL) | Geographic Coordinates        |
| B1                | 9°51'45.41"N<br>76°46'10.09"E | 113                | 90 m (M1)                          | 100                | 9°51'43.16"N<br>76°46'8.24"E  |
| B2                | 9°51'45.62"N<br>76°46'11.91"E | 109                | 125 m (M2)                         | 99                 | 9°51'49.16"N<br>76°46'14.02"E |
| B3                | 9°51'43.12"N<br>76°46'10.97"E | 95                 | 225 m (M3)                         | 89                 | 9°51'36.92"N<br>76°46'15.67"E |

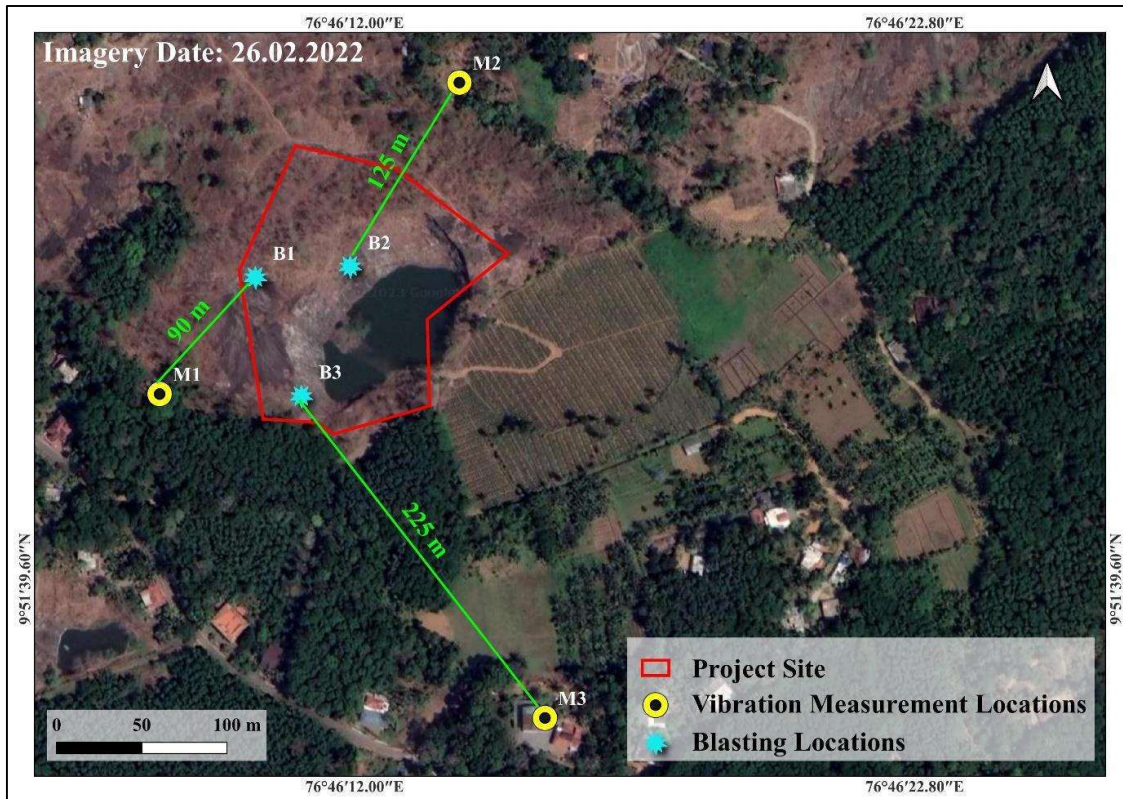


Figure 2.4: Google Earth Imagery showing Blasting & Vibration Measurement Locations

## 2.5. Blasting Technique

### 2.5.1. NONEL Initiation for Eco-friendly Blasting

NONEL (non-electric) is a shock tube detonator designed to initiate explosion generally for the purpose of demolition of buildings and for use in blasting of rock in mines and quarries. Instead of electric wires, a hollow plastic tube delivers the firing impulse to the detonator making it immune to most of the hazards associated with stray electric current. It consists of a small diameter, three-layer plastic tube coated on the innermost wall with a reactive explosive compound, which, when ignited, propagates a low energy signal, similar to a dust explosion.

*Advantages:*

- Reduce noise, fly rock and vibration generated during blasting.
- Increase blasting efficiency and optimize cost of blasting.
- Very safe to use in rainy season also.
- Eco-friendly method of blasting provided with good fragmentation.

Images showing method of NONEL blasting is given in Figure 2.5.

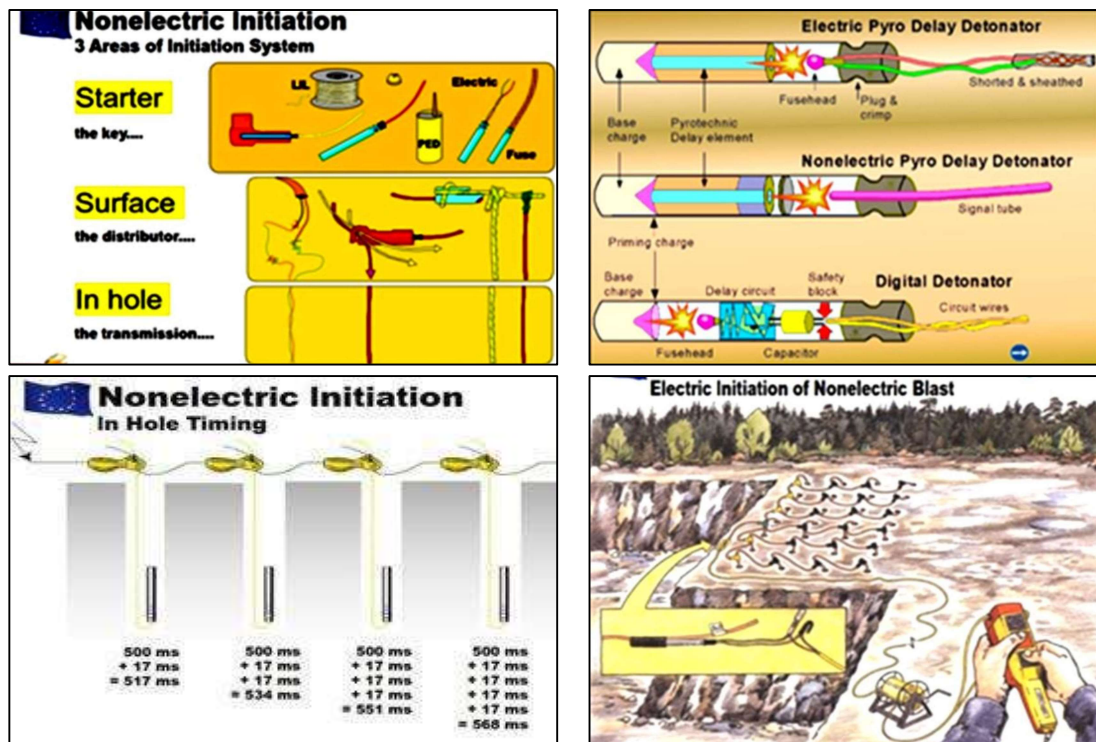


Figure 2.5: Images of NONEL Blasting

### 2.5.2. Blast Hole Drilling & Blasting Initiation

Blast hole (initial hole into which the explosives are packed) drilling is a technique used in mining whereby a hole is drilled into the surface of the rock, packed with explosive material, and detonated.

- Drilling of holes is done by jack hammer with the help of air compressor.
- Hole location is properly dressed by excavator to remove the loose boulders for efficient drilling and for avoiding jamming of drilling hammer and bits.
- Diameter and depth of drill holes were 32 mm and 1.5 m respectively.
- Distance between the holes is maintained as 1.2 m.
- Diameter of the cartridge is 25 mm.
- About 15 holes were drilled for blasting at one location; 5 holes were blasted in one blast.
- Holes are filled with charge and detonated with NONEL detonators along with safety fuse.
- Short delay detonators used for the study is about 5 nos.
- Charge and NONEL detonators used for blasting is REX 90 type nitrate mixture filled inside gelatin stick and Omega Dualdet (1348) 3Mtrs (NONEL) respectively.
- Charge per delay, maximum quantity of explosive charge detonated on one interval within a blast is about 250 g ( $125 \text{ g} \times 2$  per hole).

**Vibration Study Report for Granite Building Stone Quarry of Mr. Binoy Jose at Alakode Village, Thodupuzha Taluk, Idukki District, Kerala**

The explosives are stored in 100 kg Magazine which is 0.06 km, SSW from BP 9. Photographs of magazine and explosives used for blasting is given in Figure 2.6. Explosive License is attached as Annexure – 6.



9°51'40.86"N, 76°46'13.35"E (0.06 km, SSW from BP 9)



NONEL Omega Dualdet (1348) 3Mtrs



Nitrate Mixture REX 90

**Figure 2.6: Photographs of Magazine & Explosives used for Blasting**

Photographs showing blasting locations before and after blasting is given in Figure 2.7.

| S. No. | Blasting Location – Before Blasting | Blasting Location – After Blasting |
|--------|-------------------------------------|------------------------------------|
| B1     |                                     |                                    |

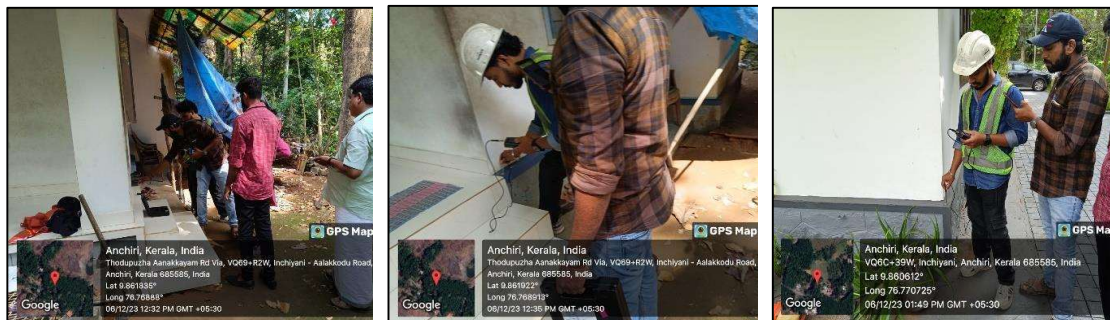
**Vibration Study Report for Granite Building Stone Quarry of Mr. Binoy Jose at Alakode Village, Thodupuzha Taluk, Idukki District, Kerala**

| S. No. | Blasting Location – Before Blasting | Blasting Location – After Blasting |
|--------|-------------------------------------|------------------------------------|
| B2     |                                     |                                    |
| B3     |                                     |                                    |

**Figure 2.7: Photographs of Blasting Location**

**2.6. Measurement of Ground Vibration**

Blast induced ground vibration is measured in terms of PPV in units mm/s. NABL Accredited Laboratory conducted the vibration monitoring with the help of Vibration Meter VB-8205 HTC. It can measure both frequency and velocity. A test probe is connected to the vibration meter. A transducer is kept on the top soil, and the probe is then kept on top of the transducer. In order to take peak particle velocity, “HOLD” option is used so that the peak velocity during blast vibration can be captured. Frequency is also noted down at the time of blasting. Photographs of vibration monitoring is given in Figure 2.8. Calibration of vibration meter is valid from 20.04.2023 to 19.04.2024. Calibration certificate of vibration meter is attached as Annexure – 7.



*House of Ms. Jemini*

*House of Mr. Kunjappan*

*House of Mr. Jhonson*

**Figure 2.8: Photographs of Ground Vibration Measurement**

## 2.7. Results & Data Interpretation

In India, DGMS suggested safe limits of ground vibrations for different categories of structures with frequencies of <8 Hz, 8-25 Hz and >25 Hz. through Circular No. 7 dated 29/8/1997. Details of the same is given in Table 2.2.

**Table 2.2: Permissible PPV (mm/s) as per DGMS, India**

| Type of Structure   | Dominant Frequency (Hz) |           |         |
|---|-------------------------|-----------|---------|
|   | < 8 Hz                  | 8 – 25 Hz | > 25 Hz |
| <b>(A) Building/structures not belonging to the owner</b>                       |                         |           |         |
| Domestic houses/structures (kuchha brick and cement)                            | 5                       | 10        | 15      |
| Industrial buildings (RCC and framed structures)                                | 10                      | 20        | 25      |
| Objects of historical importance and sensitive structures                       | 2                       | 5         | 10      |
| <b>(B) Building/structures belonging to the owner with limited span of life</b> |                         |           |         |
| Domestic houses/structures (kuchha brick and cement)                            | 10                      | 15        | 25      |
| Industrial buildings (RCC and framed structures)                                | 15                      | 25        | 50      |

Nearest house is 64 m away from BP 3. Structures can be assigned a permissible PPV of 15 mm/s as per the DGMS guidelines. Results of vibration measurement is given in Table 2.3. Vibration monitoring report is attached as Annexure – 8.

**Table 2.3: Results of Vibration Measurement**

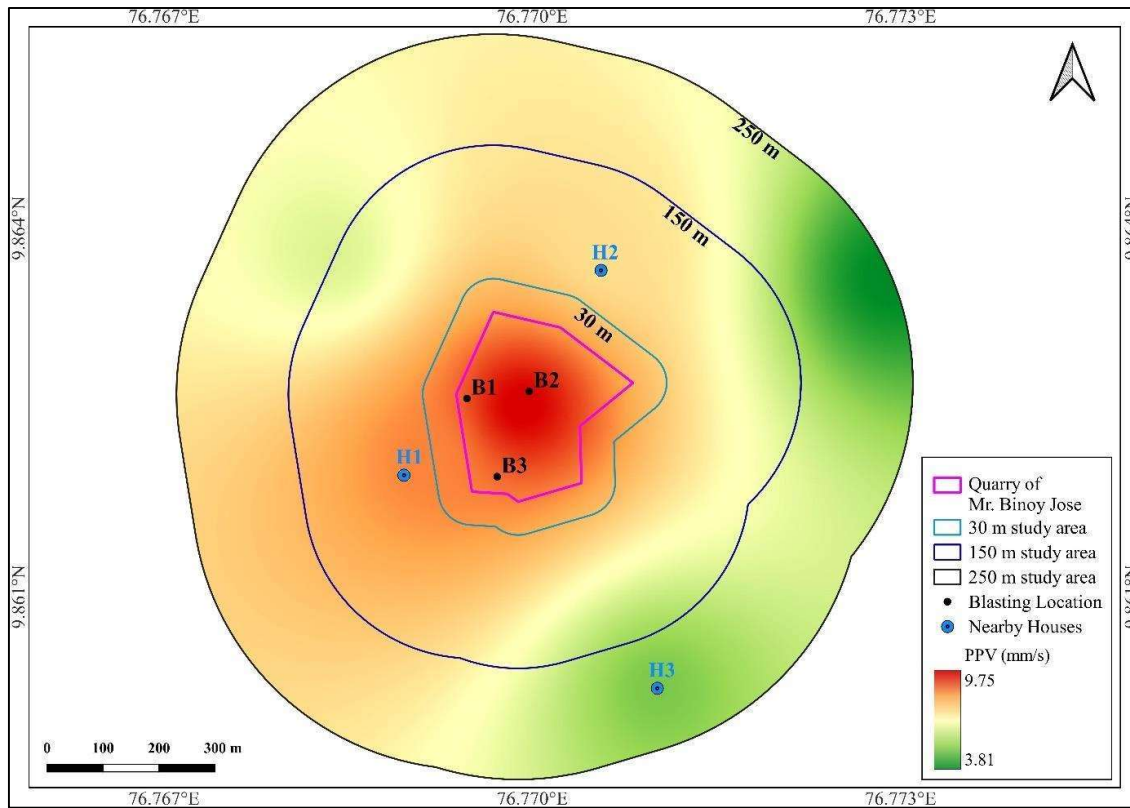
| Blast No. | Depth of Blast Hole | Explosive/ Hole | Total Explosive/ Blast | Distance from Blasting Location (m) | Frequency (Hz) | Peak Particle Velocity (mm/s) |
|-----------|---------------------|-----------------|------------------------|-------------------------------------|----------------|-------------------------------|
| B1        | 1.5 m               | 250 g           | 1.25 kg                | 90                                  | 83             | 7.59                          |
| B2        |                     |                 |                        | 125                                 | 68             | 2.91                          |
| B3        |                     |                 |                        | 225                                 | 33             | 1.33                          |

The highest PPV recorded was 7.59 mm/s at a distance of 90 m from blasting location B1. The ground vibration recorded are less than 15 mm/s thus the ground vibration values are within the permissible limit as mentioned by DGMS.

### 2.7.1. Zone of Influence

The zone of influence was measured using Inverse Distance Weighted (IDW) interpolation tool in QGIS software, where the PPV was taken as the known cell value for interpretation. An area of 250 m radius from the project boundary was taken, where three houses were considered. The map showing zone of influence is shown in Figure 2.9.

**Vibration Study Report for Granite Building Stone Quarry of Mr. Binoy Jose at Alakode Village, Thodupuzha Taluk, Idukki District, Kerala**



**Figure 2.9: Map of Zone of Influence**

According to the map, the PPV varied within a 250 m radius around the project site, ranging from 3.81 mm/s to 9.75 mm/s. It also shows that the impact of ground vibration at a radius of 30 m is within the permissible limit as per DGMS.

## **Chapter 3. Conclusion & Recommendation**

### **3.1. Conclusion**

- Total of three locations, where outcrop is present and topsoil is absent were selected for blasting.
- One location for each blasting location were chosen for vibration measurement.
- Blast holes of 32 mm diameter and 1.5 m were used with charge per delay is 250 g in all blast rounds.
- Analysis of blast vibration data of PPV for various blasts was recorded. It was found that value of PPV varies with blasting.
- The maximum PPV recorded was 7.59 mm/s at a distance of 90 m from blasting location B1.
- Maximum PPV is less than 15 mm/sec, which is the safe PPV defined by DGMS for Domestic Houses (Brick/Cement). Hence the values are within DGMS standards.

Based on the studies, it can be stated that there is no effect of blasting operations beyond 50 m from the blasting locations of the proposed quarry, if the quantity of charge/explosive used is 2\*125 g per blast hole; 250 g per blast.

### **3.2. Recommendation**

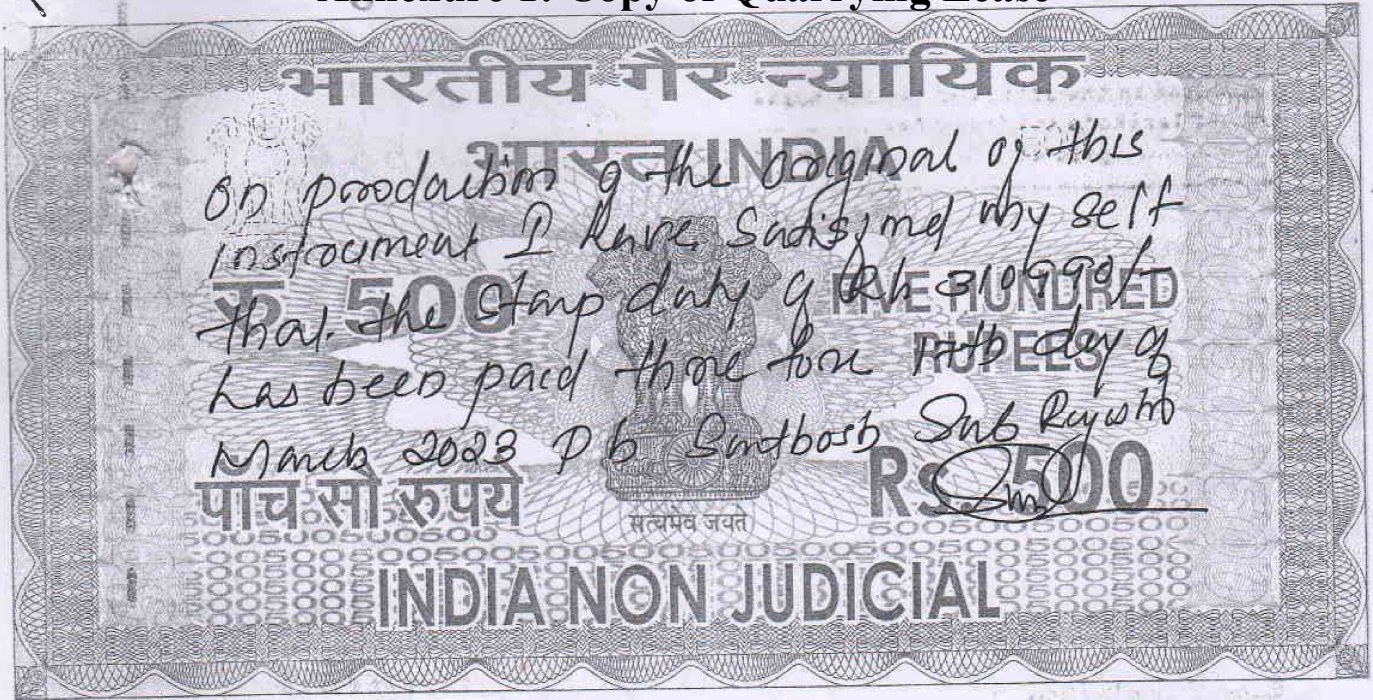
- Regular monitoring of the vibration study once in every six months.
- Use filled gunny bags while blasting to cover the rocks.
- It also recommended to keep the blast hole depth 1.5 m & diameter 32 mm; maximum of 250 g of explosive with NONEL detonation. Hence, the effect of vibration can be controlled within 50.0 m from the blasting site.

# **ANNEXURES**

### **List of Annexures**

| <b>Annexure No.</b> | <b>Annexure</b>                                |
|---------------------|--|
| Annexure - 1        | Copy of Quarrying Lease                        |
| Annexure - 2        | Copy of EC Letter                              |
| Annexure - 3        | Certificate of RQP involved in Vibration Study |
| Annexure - 4        | NABET Certificate of EIA Consultant            |
| Annexure - 5        | NABL Certificate of Laboratory                 |
| Annexure - 6        | Copy of Explosive License                      |
| Annexure - 7        | Calibration Certificate of Vibration Meter     |
| Annexure - 8        | Copy of Vibration Monitoring Report            |

927049 811/7/2023  
Annexure 1: Copy of Quarrying Lease



കേരളം കേരल KERALA

M 625378

**FORM H**  
(See Rule 43)  
**QUARRYING LEASE**

Lessee : Binoy Jose



This deed of lease made on this the 10<sup>th</sup> day of March 2023 between the Governor of Kerala (hereinafter referred to as the "State Government" which expression shall, where the context so admits be deemed to include his successors and assigns) of the one part and Sri. Binoy Jose (Holder of Aadhar No. 2765 2233 0829), S/o, Jose, aged 48 Years, Business, Elavumkal House, Nagapuzha P.O., Nagappuzha Kara, Kallorkad Village, Ernakulam District- 686 668 (hereinafter called the "lessee/ lessees" which expression shall where the context so admits, include his/their heirs, ex-ecutors, administrators, representatives and permitted assigns) of the other part.

Lessor

**Dr. V. SUNIL KUMAR**  
(PEN - 316838)  
GEOLOGIST  
MINING & GEOLOGY DEPT.  
GOVT. OF KERALA

Lessee  
Binoy Jose

Lessee  
Binoy Jose

Binoy Jose,  
Elavumkal (H), Nagappuzha

to 34040

10-3-2023

8/11/2023.

executed in the office of the Sub Registrar of Karikote and fee of Rs. 10.50

with photocopy and

Thumb impression of the Presentor under Section 32A and a fee of Rs 78992/- Paid through EPayment on the 17th day of March 2023 by

P. Jinoj Jose

Residing at Elavumkunnil home

2300 day of March 2023 P. Jinoj Jose

Execution admitted by.

Sub Registrar (Signature)

P. Jinoj Jose

Sl. No. Jose Business Residing at Elavumkunnil home Nagappuzha.



I have satisfied myself the the Execution of this instrument by Mr. V Sunil Kumar Geologist Mining and Geology Dept who is exempted from Personal appearance under Section 88 (i) of Reg. Act

Document No. 61 of 2023 of Book 2  
Sheets 1 of 1

(Signature)

Sub Registrar

Witnesseth that in consideration of the rents and royalties and lessee's/ Lessees' covenants, hereinafter reserved and contained the State Government hereby give on lease to the lessee/lessees the land measuring **1.6200** 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 7 (Seven) years commencing from the 15th March 2023 and ending on the 9th March 2030 for the purposes of extracting minor mineral/ minerals and subject to the terms and conditions contained in the Kerala Minor Mineral Concession Rules, 2015 (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** (herein after 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, buildings 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.
2. The lessee/lessees shall during the subsistence of this lease have the liberty to work the said mineral/minerals and remove the same from the leasehold on permits issued by the State Government/competent authority or any other officer authorised by him in this regard. The permits shall be issued only on the basis of pre-paid royalty at the rates specified in Schedule I to these Rules. The royalty rates shall be subject to revision from time to time as the State Government may order.
3. The lessee/lessees shall pay to the State Government a yearly surface rent equal to the land revenue if any, assessable under the rules for the time being in force, or if the land be the property of Government or in reserve forest then equal to the land revenue plus cess, if any, per hectare of the land the surface whereof shall be occupied or used by the lessee/lessees for any of the purposes of this deed and so in proportion for any area less than one hectare. The said surface rent shall be paid by yearly payments; the first of such payments to be made

Lessor

Dr. V. SUNIL KUMAR  
(PEN - 316838)  
GEOLOGIST  
MINING & GEOLOGY DEPT.  
GOVT. OF KERALA

Lessee  
Binoy Jose

Identified by.

1. Anwarjee 810 Rajapur Kachapurambal Bussney Kalasab'
2. Jager K.R w/o subath Kathalikalakka (2) housewise veragallu

17th day of March 2023

Pls Sandbasb Sub Registrar



Registered as No. ... of 19 ... of ...  
... ..  
... ..  
... ..

Sub Registrar.

17th day of March 2023

Pls Sandbasb Sub Registrar



on or before the last day of the first year of occupation provided always that no such rent shall be paid or demanded in respect of any roads or ways now in existence.

4. The lessee/lessees shall at all times during the currency of this lease keep correct and intelligible books of account showing accurately the quantity of the said minerals extracted and the weight and value of the said mineral sold or exported together with the names of the purchasers or consignees. The lessee shall also maintain a register of employees showing therein separately men, women employed daily and shall at reasonable times allow the competent authority appointed under the rules (hereinafter referred to as "competent authority") or the officer authorised by him to examine the said books of account and the register of employees and to take copies and extracts there from. The lessee/lessees shall submit reports in Forms F and G on the specified dates.
5. All sums found due under or by virtue of this deed from the lessee/ lessees may be recovered from him jointly and severally from them and his/their properties movable and immovable under the provisions of the Revenue Recovery Act for the time being in force as though such sums are arrears of land revenue or in any other manner as the State Government may deem fit.
6. The lessee/lessees shall at the lessee's/lessees' own expense erect and at all times maintain and keep in repair boundary marks and pillars along the boundaries of the said lands according to the demarcation shown in the plan here to annexed.
7. The lessee shall not carry on or allow to be carried on any quarrying operations at or to any points within a distance of 100 meters from any railway line except with the previous written permission of the railway administration concerned and any bridge on National Highway or 50 meters from any reservoir, tanks, canals, rivers, bridges public roads, other public works, residential buildings, the boundary walls of places of worship, burial grounds or burning ghats or one kilometer from the boundaries of National Park or Wildlife Sanctuaries except with the previous permission of the authorities concerned or the Government or competent authority: Provided that the railway

**Lessor**

**Dr. V. SUNIL KUMAR**  
(PEN - 316838)  
GEOLOGIST  
MINING & GEOLOGY DEPT.  
GOVT. OF KERALA

**Lessee**

**Binoy Jose**

Faint, illegible text, likely bleed-through from the reverse side of the page.

Document No 811 of 2023 of 2001 2  
8 Subst 3

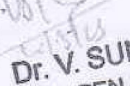



Sub Registrar

administration or the state Government or any other authority in this behalf may in granting such permission impose such other conditions as may be found proper and necessary.

8. The sides of open workings shall be sloped, stepped or secured by the lessee in such a manner as to prevent slope failure, when an open working is worked in steps, steps shall be of sufficient breadth in relation to their height to secure safety. In open workings trees liable to fall and all loose ground and material shall be removed by the lessee sufficiently far from the edge or otherwise made source in order to prevent danger to persons employed in the quarry.
9. If a working place is found to be unsafe all persons shall be withdrawn by the lessee/lessees immediately from the dangerous area and all access to such working place except for the purpose of removing the danger of saving life shall be prevented by securely fencing the full width of all entrances to the place.
10. The lessee/lessees shall at all reasonable times allow any officer authorised by the Central Government or by the State Government in that behalf to inspect the said lands and the buildings and plants erected thereon and the lessee/lessees shall assist such persons in conducting the inspection and afford them all information they may reasonably require, and shall conform to and observe all orders which the Central and State Governments as the result of such inspection or otherwise, may from time to time pass.
11. The lessee shall be responsible for implementing the provisions of the various labour laws applicable, from time to time, to the quarry.
12. The lessee/lessees shall not assign or underlet the said lands or any part thereof or the rights or privileges, therein hereby granted or any of them without the previous permission in writing of the State Government/competent authority.
13. Where the lease or any right, title or interest therein has been assigned, sublet or transferred as provided in rule 45 read with condition 12, then the person in whose favour such assignment, sublease or transfer has been made shall be

Lessor

  
Dr. V. SUNIL KUMAR  
(PEN - 316838)  
GEOLOGIST  
MINING & GEOLOGY DEPT.  
GOVT. OF KERALA

Lessee  
Binoy Jose 

Faint, illegible text, likely bleed-through from the reverse side of the page.

Document No. 811 of 2008 of Page 1  
Page 8 of 8 Sheets

See Registrar

Faint text at the bottom left corner, possibly a date or reference number.

responsible for implementing the provisions of the various labour laws applicable, from time to time, to the quarry.

14. The lease may be surrendered by the lessee/lessees at any time after 3 months notice in writing to the State Government/competent authority: Provided the lessee/lessees has/have paid all sums due on account of the lease: Provided further that if the lessee/lessees elects/elect to determine this lease before the expiry of the term of the lease, shall pay in addition to other dues a sum equal to the dead rent payable for the remaining part of the term of the lease deed.
15. If the lessee/lessees shall be desirous of taking a further lease of the said lands for a further term, he/they shall give three months' previous notice in writing of such desire to the State Government/competent authority and if the lessee/lessees has/have duly observed all the conditions of this lease, the State Government/competent authority may agree to renew the lease for such further term and on such terms and conditions as the State Government/competent authority may determine which shall be in accordance with the provisions of these rules.
16. If the lessee/lessees shall at any time during the said term use the said lands or any part thereof in any manner other than as authorized by this lease or fail to carry on quarrying operations continuously without sufficient cause of which the State Government/competent authority shall be the judge or shall commit a breach of any of the conditions of this lease it shall be lawful for the State Government/competent authority to cancel this lease and take possession of the said lands or the alternative to receive from the lessee/lessees such penalty not exceeding Rs. 25,000/- (Rupees Twenty Five Thousand only) for the breach as the State Government/competent authority may fix.
17. If at the expiration of three calendar months after the expiry of the lease or its sooner determination, there shall remain in or the said lands, any engines, machinery, plant, buildings, structures and other works, erections and conveniences, the said minerals or other property which the lessee is/lessees are entitled to remove

Lessor

*Dr. V. Sunil Kumar*  
Dr. V. SUNIL KUMAR  
(PEN - 316838)  
GEOLOGIST  
MINING & GEOLOGY DEPT.  
GOVT. OF KERALA

Lessee  
Binoy Jose

Faint, illegible text at the top of the page, possibly a header or introductory paragraph.

Second block of faint, illegible text, appearing to be a list or series of points.

Third block of faint, illegible text, continuing the list or series of points.

Document No. 811 2023  
Page 5 of 5



Sub Registrar


Faint text at the bottom left of the page.


Faint text at the bottom right of the page.

from the said lands, the same shall, if not removed by the lessee/lessees within one calendar month after notice in writing requiring their removal be given to the lessee/lessees by the State Government/ competent authority be deemed to become the property of the State Government in such manner as they may deem fit without liability to pay any compensation or to account to the lessee/lessees in respect thereof.

18. This lease subject to all rules and regulations which may from time to time be issued by the State Government regulating the working of the quarries and other matters affecting safety, health and convenience of the lessee's/lessees' employees or of the public, whether under the Indian Mines Act or otherwise.
19. The lessee/lessees shall without delay send to the District Collector and the competent authority or the officer authorised by him in this regard report of any accident causing loss of life or serious bodily injuries or seriously affecting or endangering life or property which may at any time occur at or in the said lands in the course of operations under this lease.
20. The lessee/lessees shall furnish such reports and returns relating to output, labourers employed and other matters as the State Government may prescribe.
21. The lessee/lessees shall make and pay such reasonable compensation as may be assessed by lawful authority in accordance with the law in force on the subject for all damage, injury or disturbance which may be done by him/them in exercise of the powers granted by this lease and shall indemnify and shall keep indemnified fully and completely the State Government against all claims which may be made by any person or persons in respect of any such damage, injury or disturbance and all costs and expenses in connection therewith.
22. Any condition prescribed in the Kerala Minor Mineral Concession Rules, 2015 but left out in this lease which may be found applicable to the lessee/lessees shall be treated as binding on the lessee/lessees.

Lessor

  
Dr. V. SUNIL KUMAR  
(PEN - 316838)  
GEOLOGIST  
MINING & GEOLOGY DEPT.  
GOVT. OF KERALA

Lessee  
Binoy Jose 

Faint, illegible text at the top of the page, possibly bleed-through from the reverse side.

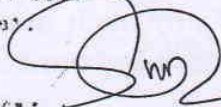
Faint, illegible text in the upper middle section of the page.

Faint, illegible text in the middle section of the page.

Faint, illegible text in the lower middle section of the page.

Faint, illegible text in the lower section of the page.

Document No. 811 of 13 of Book 2  
Page 8 of 13



Sub Register:

Faint, illegible text at the bottom of the page.



The Board of Directors of the Corporation has approved the following resolution:
   
 That the Board of Directors of the Corporation do hereby authorize the President of the Corporation to execute and deliver to the Secretary of the State of New York a Certificate of Incorporation for the Corporation, together with the necessary fees, and to file the same with the Secretary of the State of New York, and to do all things necessary and proper to cause the Corporation to be duly organized and to commence business.

**STATEMENT OF DIRECTORS OF THE**

Name of Director: \_\_\_\_\_
   
 Address: \_\_\_\_\_
   
 Telephone: \_\_\_\_\_

| Name | Address | Telephone | Signature |
|------|---------|-----------|-----------|
|      |         |           |           |
|      |         |           |           |
|      |         |           |           |
|      |         |           |           |
|      |         |           |           |
|      |         |           |           |
|      |         |           |           |
|      |         |           |           |
|      |         |           |           |

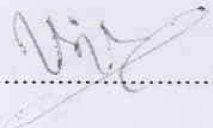
Date: 8/11/2023
   
 By: \_\_\_\_\_

[Signature]
   
 Secretary

| Name | Address | Telephone | Signature |
|------|---------|-----------|-----------|
|      |         |           |           |
|      |         |           |           |
|      |         |           |           |
|      |         |           |           |

State of New York
   
 Department of State

In witness whereof the parties hereto have signed on the date and year first above written.

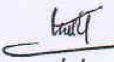
Signed by.....

For and on behalf of the Governor of Kerala.  
In the presence of

(1) Praveen Kurian Thomas  
Asst. Geologist  
Dept of Mining and Geology  
Dist. office Edulabi

  
10/03/23

(2) K.V. Michael, Mineral Revenue Inspector  
Dept of Mining & Geology, Dist Office  
Edulabi, Thodupuzha

  
10/3/23

Signed by.....

For and on behalf of the lessee/lessees  
In the presence of


(1) Jissmon George  
Katakallil (A)  
Parakkode



(2) ABRAHAM GEORGE  
Edavakandathil house  
Narakadu. P O



Lessor

  
Dr. V. SUNIL KUMAR  
(PEN - 316838)  
GEOLOGIST  
MINING & GEOLOGY DEPT.  
GOVT. OF KERALA

Lessee  
Binoy Jose



Duplicate 1 : there is no difference B/w  
Original and duplicate

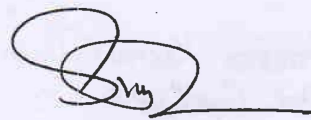
there is no correction @ this

Compared  
By

Reader : Lincy Grace Sr. Clerk &

Examiners : Anjalethy. R. S., Clerk, Anjalethy

17th day of march  
2023

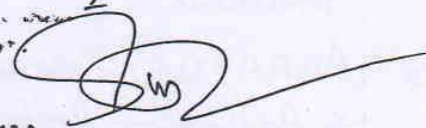


P. G. Santhosh

Sub. Registrar.

6/11 2023 2  
8 8 8

Sub Registrar



## Annexure 2: Copy of EC Letter

ENVIRONMENTAL  
CLEARANCE

**PARI PARIVESH**

(Pro-Active and Responsive and Responsive Facilitation by Interactive,  
and Virtuous Environment's Environmental Single-Window Hub)



Government of India  
Ministry of Environment, Forest and Climate Change  
(Issued by the State Environment Impact Assessment  
Authority(SEIAA), Kerala)

To,

The Owner  
HARITHA CONSULTANTS  
Elavumkal Veedu, Nagapuzha Post, Ernakulam District -685588

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity  
under the provision of EIA Notification 2006-regarding

Sir/Madam,

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/276440/2022 dated 04-Jun-2022. The particulars of the environmental  
clearance granted to the project are as below.

- |   |  |
|---|--|
| 1. EC Identification No.                      | EC22B001KL147310                                   |
| 2. File No.                                   | 1415(A)/EC2/2019/SEIAA                             |
| 3. Project Type                               | New  |
| 4. Category                                   | B2   |
| 5. Project/Activity including<br>Schedule No. | 1(a) Mining of minerals                            |
| 6. Name of Project                            | Proposed building stone quarry of Mr<br>Bincy Jose |
| 7. Name of Company/Organization               | HARITHA CONSULTANTS                                |
| 8. Location of Project                        | Kerala   |
| 9. TOR Date                                   | N/A  |

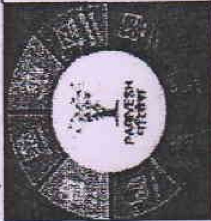
The project details along with terms and conditions are appended herewith from page  
no 2 onwards.

Date: 01/09/2022

(e-signed)  
Dr. Venu V IAS  
Member Secretary  
SEIAA - (Kerala)

*Note: A valid environmental clearance shall be one that has EC identification  
number & E-Sign generated from PARIVESH. Please quote identification  
number in all future correspondence.*

*This is a computer generated cover page.*





सत्यमेव जयते

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

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

**Sub: SEIAA - Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Binoy Jose, Elavumkal Veedu, Nagapuzha Post, Ernakulam - Granted – Orders issued.**

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

**Proposal No. SIA/KL/MIN/276440/2022**

**File No. 1415(A)/EC2/2019/SEIAA**

- Ref: 1. Application from Sri. Binoy Jose received on 22.07.2019.  
2. Minutes of the 127<sup>th</sup> SEAC meeting held on 28<sup>th</sup> to 30<sup>th</sup> April, 2022.  
3. Minutes of the 129<sup>th</sup> SEAC meeting held on 8<sup>th</sup> to 10<sup>th</sup> June, 2022.  
4. Minutes of the 116<sup>th</sup> meeting of SEIAA held 29<sup>th</sup> & 30<sup>th</sup> July 2022.  
5. G.O(Rt.) No.29/2019/Envr dt.12.04.2019

### ENVIRONMENTAL CLEARANCE NO.122/Q/2022

Sri. Binoy Jose, Elavumkal Veedu, Nagapuzha Post, Ernakulam – 686 668, submitted an application for Environmental Clearance via PARIVESH on 04/06/2022 (offline application on 22.07.2019) for the Granite Building Stone Quarry Project for an area of 1.6200 Ha. in Sy. Nos. 336/3-3, 336/3-4, 395/1 of Alakode Village, Thodupuzha Taluk, Idukki. The project details are as follows:

| SL. No. | Particulars   | Details   |
|---------|---|---|
| 1       | Name of the Project   | Granite Building Stone Quarry Project of Sri. Binoy Jose  |
| 2       | Proposed Activity   | Mining of Granite Building Stone  |
| 3       | Name of the Sector & Schedule No. (in the EIA Notification, 2006) | Non Coal mining,<br>Activity 1(a), Category B2  |
| 4       | Name & Address of the Project Proponent                           | Sri. Binoy Jose,<br>Elavumkal Veedu,<br>Nagapuzha P.O.,<br>Ernakulam,<br>Kerala- 686 668                            |
| 5       | Project Location  |   |
|         | a) Survey Nos:  | 336/3-3, 336/3-4, 395/1   |
|         | b) Revenue Village & Panchayat                                    | Alakode   |
|         | c) Taluk  | Thodupuzha  |
|         | d) District   | Idukki  |
| 6       | Geo Co-ordinates  | Latitude 9°51'42.16"N to 9°51'48.00"N<br>Longitude 76°46'9.65"E to 76°46'14.98"E                                    |
| 7       | Extent (in Acre/Hectare)  | 1.6200 Ha.  |
| 8       | Project Cost  | ₹1,15,40,000/-  |
| 9       | Production Details  | 829227MT  |
| 10      | Water Requirement   | 17 KLD (2KLD for Domestic purpose; 12KLD for Dust Suppression / Water sprinkling; 3KLD for Green belt / Plantation) |
| 11      | Power Source  | 75 kW (Diesel Engine)<br>Domestic consumption (KSEB)  |
| 12      | Date of Field Inspection  | 8-12-2019   |

### CER Details

| Year wise                               | Particulars  | Amount                  |
|---|--|-------------------------|
| First year                              | Upgradation of Computer Lab  | Rs. 1,00,000 /-         |
|   | Provision of Water dispenser with purifier                           | Rs. 1,00,000 /-         |
| Second year                             | Shelves, Locker Facilities and Racks for keeping equipments          | Rs. 1,00,000 /-         |
|   | Revamping of the existing ETP of Chilavu Ayurvedic Dispensary        | Rs. 2,00,000/-          |
| 3 <sup>rd</sup> to 5 <sup>th</sup> Year | Classroom 1 will be done   | Rs. 1,00,000/-          |
|   | Will provide Solar LED Street Lights                                 | Rs. 1,00,000/-          |
|   | Renovation of houses in the Marampera Palakkat Colony (3 Family)     | Rs.3,00,000/-           |
|   | Classroom 2 will be done   | Rs. 1,00,000/-          |
|   | Will provide water purifier of RO/ UV/ UF technology for 5 Anganwadi | Rs. 2,00,000/-          |
| <b>Total</b>                            |  | <b>Rs. 13,00,000 /-</b> |

2. In the 127<sup>th</sup> SEAC meeting held on held on 28<sup>th</sup> to 30<sup>th</sup> April, 2022, the Committee verified the documents submitted by the proponent and are found satisfactory. The Committee also discussed the field inspection report and the slope stability mitigation study. Based on these, Committee recommended EC with a Project Life of 7 years subject to certain Specific Conditions in addition to the General Condition.

3. On receipt of the proposal (No. SIA/KL/MIN/276440/2022) via PARIVESH as per O.M. No. IA3-19/95/2021-IA-III dated 06-10-2021 the 129<sup>th</sup> SEAC meeting held on 8<sup>th</sup> to 10<sup>th</sup> June, 2022, decided to adhere to the decision No. 127.07 taken in its 127<sup>th</sup> meeting.

4. In the 116<sup>th</sup> SEIAA Meeting held on 29<sup>th</sup> & 30<sup>th</sup> July 2022, the Authority decided to issue EC initially for a period of 5 (five) years for the quantity mentioned in the approved Mining Plan and then to extend the EC period to cover the Project Life of 7 years, from the date of issuance of original EC, subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any EC conditions and thereby caused any damage to the environment in the project region by violating EC conditions.

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

- 1) *The proponent shall carry out quarrying as per the approved Mining Plan and the 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) *Measures incorporated in the CER should be implemented in total during the first two years and they should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.*
- 4) *The garland canal, silt traps, siltation pond and outflow channel should be desilted periodically to avoid obstruction to overland drainage.*
- 5) *The Green belt development in the buffer should be done in the first year of the project itself and it should be nurtured and maintained in subsequent years*
- 6) *The overburden dump should be protected with proper gabion wall to avoid soil erosion.*
- 7) *The bottom bench should not be below the general water table.*
- 8) *The transportation of mined material should not be done during the peak hours in the forenoon and afternoon.*
- 9) *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering*

*the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.*

*10) 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.*

*11) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th 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.*

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

**5. Environmental Clearance as per the EIA Notification, 2006 is hereby accorded for the Granite Building Stone Quarry Project of Sri. Binoy Jose, Elavumkal Veedu, Nagapuzha Post, Ernakulam – 686 668, for an area of 1.6200 Ha., in Survey Nos. 336/3-3, 336/3-4 & 395/1 of Alakode Village, Thodupuzha Taluk, Idukki District, Kerala, initially for a period of 5 (five) years from the date of execution of valid mining lease/permit from the Department of Mining and Geology, as per SO 1807(E) dated 12.04.2022 of MoEF & CC, for the quantity mentioned in the approved Mining Plan, and then to be extended to cover**

the Project Life of 7 years, from the date of issuance of original EC, subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any EC conditions and thereby caused any damage to the environment in the project region by violating EC conditions, subject to the Specific Conditions in Para 4 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 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.

6. 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 proponent, as if incorporated herein.

7. Validity of the Environmental Clearance will be initially for the period of Five (5) years from the date of execution of valid mine lease/permit 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 extend to cover project life of 7 years as stipulated in Para (5) above.

8. Compliance of 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, Idukki.

9. The Half Yearly Compliance Report (HYCRs) with its contents, covering letter, compliance report and environmental monitoring data have to be uploaded in the PARIVESH portal and the website of the project proponent. The HYCR with the name of the project, EC No and date & the period of submission should be sent to the Regional Office of MoEF & CC & to SEIAA by email only at email ID [rosz.bng-mefcc@gov.in](mailto:rosz.bng-mefcc@gov.in) & [seacseiaakerala@gmail.com](mailto:seacseiaakerala@gmail.com), respectively. Hardcopy of HYCRs shall not be acceptable.

10. The given address for correspondence with the authorised signatory of the project is Sri. Binoy Jose, Elavumkal Veedu, Nagapuzha Post, Ernakulam – 686 668.

### 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 news papers 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 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 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 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.
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. Binoy Jose,  
Elavumkal Veedu,  
Nagapuzha Post,  
Ernakulam – 686 668

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: rosz.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- 695001.
4. The District Collector, Idukki.
5. The Director, Mining & Geology, Thiruvananthapuram -4.
6. The Member Secretary, Kerala State Pollution Control Board.
7. The District Geologist, Idukki.
8. The Tahsildhar, Thodupuzha Taluk, Idukki District.
9. The Secretary, Alakode Grama Panchayath, Thodupuzha Taluk, Idukki.
10. The Chairman, SEIAA.
11. Website.
12. S/f
13. O/c

Validity unknown

Digitally signed by D. Venu V IAS  
Member Secretary  
Date: 9/1/2022 4:55:58 PM

# Annexure 3: Certificate of RQP involved in Vibration Study



ANNEXURE NO: 18

GOVERNMENT OF KERALA

## DEPARTMENT OF MINING AND GEOLOGY

Directorate of Mining and Geology, Pattom Palace PO,  
Kesavadasapuram, Thiruvananthapuram-695004, Kerala  
www.dmg.kerala.gov.in



### FORM Q

#### CERTIFICATE OF RECOGNITION AS QUALIFIED PERSON TO PREPARE MINING PLANS FOR QUARRYING MINOR MINERALS IN KERALA

(Issued under Rule 54 of the Kerala Minor Mineral Concession Rules, 2015)

**Shri. V.K. Roy, S/O Shri. G. Vamadevan, 'SaraI', T.C. 27/487(2),  
Swaraj Lane, R.C Junction, Kunnukuzhy, Thiruvananthapuram -  
695 035, Kerala,** having given satisfactory evidence of his qualification and  
experience is hereby granted **RECOGNITION** under Rule 54 of the Kerala  
Minor Mineral Concession Rules, 2015 as qualified person to prepare Mining  
Plans for quarrying minor minerals in Kerala.

**The registration number is DMG/KERALA/RQP/4/2016**

**This recognition is valid for a period of 10 years ending 08/09/2026**



Photograph of RQP

Signature of RQP



T. K. Ramakrishnan  
DIRECTOR OF MINING AND GEOLOGY [I/C]

Place: Thiruvananthapuram  
Date: 09-09-2016

# Annexure 4: NABET Certificate of EIA Consultant



## National Accreditation Board for Education and Training



### Certificate of Accreditation

#### ULTRA-TECH, Thane

206, 224-225, Jai Commercial Complex, Eastern Express Highway, Opp. Cadbury, Khopat,  
Thane West - 400 601

The organization is accredited as **Category-A** under the QCI-NABET Scheme for Accreditation of EIA Consultant Organization, Version 3: for preparing EIA-EMP reports in the following Sectors –

| Sl. No. | Sector Description                         | Sector (as per) |           | Cat. |
|---------|--|-----------------|-----------|------|
|         |  | NABET           | MoEFCC    |      |
| 1.      | Mining of minerals- opencast only          | 1               | 1 (a) (i) | A    |
| 2.      | River valley projects                      | 3               | 1 (c)     | A    |
| 3.      | Thermal power plants                       | 4               | 1 (d)     | B    |
| 4.      | Metallurgical industries                   | 8               | 3 (a)     | A    |
| 5.      | Cement plants                              | 9               | 3 (b)     | A    |
| 6.      | Synthetic organic chemicals industry       | 21              | 5 (f)     | B    |
| 7.      | Distilleries                               | 22              | 5 (g)     | A    |
| 8.      | Sugar Industry                             | 25              | 5 (j)     | B    |
| 9.      | Ports, harbours, break waters and dredging | 33              | 7 (e)     | A    |
| 10.     | Highway                                    | 34              | 7 (f)     | A    |
| 11.     | Common effluent treatment plants (CETPs)   | 36              | 7 (h)     | B    |
| 12.     | Building and construction projects         | 38              | 8 (a)     | B    |
| 13.     | Townships and Area development projects    | 39              | 8 (b)     | B    |

**Note: Names of approved EIA Coordinators and Functional Area Experts are mentioned in RAAC minutes dated Jan 27, 2021 and Supplementary assessment minutes Feb 11, 2022 posted on QCI-NABET website.**

The Accreditation shall remain in force subject to continued compliance to the terms and conditions mentioned in QCI-NABET's letter of accreditation bearing no. QCI/NABET/ENV/ACO/21/1637 dated Feb 26, 2021. The accreditation needs to be renewed before the expiry ULTRA-TECH, Thane following due process of assessment.

Sr. Director, NABET  
Dated: Feb 26, 2021

Certificate No.  
NABET/EIA/2023/RA 0194\_Rev 01

Valid till  
Oct 18, 2024

For the updated List of Accredited EIA Consultant Organizations with approved Sectors please refer to QCI-NABET website.

# Annexure 5: NABL Certificate of Laboratory



National Accreditation Board for  
Testing and Calibration Laboratories

## CERTIFICATE OF ACCREDITATION

### **ENVIRODESIGNS ECO LABS**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2017**

**"General Requirements for the Competence of Testing &  
Calibration Laboratories"**

for its facilities at

ECO TOWER, JANATHA JN., PALARIVATTOM, KOCHI, KERALA, INDIA

in the field of

**TESTING**

Certificate Number: TC-7114

Issue Date: 19/10/2023

Valid Until: 18/10/2025

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.  
(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

Name of Legal Entity: ENVIRODESIGNS ECO LABS

Signed for and on behalf of NABL



N. Venkateswaran  
Chief Executive Officer

# Annexure 6: Copy of Explosive License



GOVERNMENT OF INDIA  
MINISTRY OF COMMERCE & INDUSTRY  
PETROLEUM AND EXPLOSIVES SAFETY ORGANISATION (PESO)  
(Formerly Department of Explosives)  
Kendriya Bhavan, Block C-2, 3rd Floor  
CSEZ PO Kakkamad Dist, Ernakulam Ernakulam 682037  
Tele: 2427286 Fax: 2427276  
Email: dyceernakulam@explosives.gov.in

No: E/SE/KL/22/365(E142137)

Dated : 15/09/2022

To,  
Binny Jose,  
Elavankal IHE, Nengappuzha PO  
Town Village - Kulluvakkad  
Dist: ERNAKULAM, State: Kerala, Pincode: 686668

Subject: Possession for Use of Explosives from magazine at Survey No.:227/1 Block No.32, Village/Town, Alakodu Village, Thodupuzha Taluk, Dist. IDUKKI, State Kerala Licence No.: E/SE/KL/22/365(E142137) granted in Form LE-3 of Explosives Rules, 2008 -Endorsement regarding

Sirs,

#### Conditions:

INTIMATION REGARDING QUARRYING OPERATIONS AS PER THE LETTER OF INTENT FROM THE DIRECTOR, DIRECTORATE OF MINING & GEOLOGY, THIRUVANANTHAPURAM VIDE LOI NO.1856/M3 2019 DATED 14.03.2019 AT RE SURVEY BLOCK NO.32, RE SURVEY NOS. 227/1, 227/2 OF ALAKODE VILLAGE, THODUPUZHA TALUK, IDUKKI DISTRICT, KERALA IS ACKNOWLEDGED HERE WITH THE FOLLOWING CONDITIONS 1. NO USE OF EXPLOSIVES IS PERMITTED UNLESS VALID QUARRY PERMIT IS OBTAINED AND COPY SUBMITTED TO THIS OFFICE. LOCAL STATE GOVERNMENT AUTHORITIES APPROVAL ENVIRONMENTAL CLEARANCE AS APPLICABLE AND RENEWED FROM TIME TO TIME SHALL BE IN POSSESSION. 2. LICENSED EXPLOSIVES VAN SHALL BE USED FOR TRANSPORTATION OF EXPLOSIVES FROM MAGAZINE TO BLASTING SITE. 3. IF ANY CHANGE OF QUARRY OR ADDITIONAL QUARRY IS INVOLVED, NECESSARY PRIOR APPROVAL/ENDORSEMENT SHALL BE OBTAINED FROM THE LICENSING AUTHORITY. 4. OPENING OF QUARRY SHALL BE INFORMED TO THE DGMS AND BLASTING OPERATIONS SHALL BE CONDUCTED AS PER MINS ACT'S APPROVED BLASTER SHALL BE APPOINTED IN THE QUARRY FOR BLASTING. 5. ALL RECORDS OF USE OF EXPLOSIVES IN RE-3, RE-5, RE-7 RE-13 SHALL BE MAINTAINED DAILY PASS FOR USE OF EXPLOSIVES (RE-13) SHALL BE GENERATED ONLINE. 6. EXPLOSIVES AND DETONATORS SHALL NOT BE TRANSPORTED IN SAME VAN AND TO BE TRANSPORTED SEPARATELY FROM MAGAZINE TO BLASTING SITE. VAN SHALL NOT BE USED FOR STORAGE OF EXPLOSIVES AT SITE. 7. EXPLOSIVE VAN IS PERMITTED FOR OWN USE ONLY. 8. NECESSARY APPROVALS/LICENCES FROM OTHER DEPARTMENTS SHALL BE TAKEN AS PER THE RULE.

Reference memo No: E/SE/KL/22/365(E142137) Dated 14/09/2022 from Dy. Chief Controller of Explosives, Ernakulam and inspection of the subject premises by an officer of this organization on 13/09/2022.

The subject licence No. E/SE/KL/22/365(E142137) valid upto 31st March 2027 duly endorsed as required under Rule 107(3) of the Explosives Rules 2008 is forwarded herewith.

For further renewal of licence, please submit following documents so as to reach this office on or before 31/03/2027.

- Application in Form RE-1 duly filled in and signed.
- Licence fees renewable for one to five years, to be submitted online through e-payment facility available on online application portal under the Explosives Rules, 2008.
- Original licence with approved plan.
- In this connection, please also refer to Rule 112 of Explosives Rules, 2008.
- Indent for purchase of explosives shall be placed in RE-11 with the supplier and copy of the same shall be sent to this office (Not applicable for fireworks store house)
- Please submit quarterly returns of explosives in RE-7 at the end of every quarter so as to reach this office by 10th of the succeeding quarter (Not applicable for fireworks store house)
- All blasting operations shall be carried out by a competent person holding a valid shot firer's permit granted under above rules. However, blasting operations in mines coming under the purview of the Mines Act 1952, the blaster shall have qualifications prescribed in the regulations framed under the said Act.

Yours faithfully,

(S Saravanan)  
Dy. Controller of Explosives  
For Dy. Chief Controller of Explosives  
Ernakulam

Copy Forwarded to:

- District Magistrate, IDUKKI, Kerala with reference to his No: DCIDK/4705/2019-E2 Dated: 20/07/2022.

For Dy. Chief Controller of Explosives:  
Ernakulam

If for more information regarding status, fees and other details, please visit our website (<http://explosives.gov.in>)

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

Digitally signed by S SARAVANAN  
Reason: Licence No. E/SE/KL/22/365  
Location: Ernakulam [E142137]  
Date: 2022.09.15 04:04:45 +05:30

अनुज्ञप्ति प्ररूप एल. ई.-3 | LICENCE FORM LE-3

(विस्फोटक नियम, 2008 की अनुसूची 4 के भाग 1 के अनुच्छेद 3(क) से (घ) देखिए।)

(See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008)

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

अनुज्ञप्ति सं. (Licence No.) : E/SE/KL/22/365(E142137)

वार्षिक फीस रूप (Annual Fee Rs): 2400/-

1. Licence is hereby granted to

**Binoy Jose (अधिभोगी / Occupier : Shri Binoy Jose)**, Elavunmkal (H), Nagappuzha P.O., Town/Village - Kalloorkkad, District-ERNAKULAM, State-Kerala, Pincode - 686668



को अनुज्ञप्ति अनुदत्त की जाती है।

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

3. अनुज्ञप्ति निम्नलिखित प्रयोजनों के लिए विधिमान्य है।

Licence is valid only for the following purpose.

possess for use of **Nitrate Mixture, Safety Fuse, Electric and/or Ordinary Detonators**, - के उपयोग के लिए

4. अनुज्ञप्ति विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमान्य है।

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

| क्र<br>Sr. No. | नाम और विवरण<br>Name and Description | वर्ग और प्रभाग<br>Class & Division | उप-प्रभाग<br>Sub-division | मात्रा किसी एक समय में<br>Quantity at any one time |
|----------------|--------------------------------------|------------------------------------|---------------------------|--|
| 1.             | Nitrate Mixture                      | 2.0                                | 0                         | 150 Kg.  |
| 2.             | Safety Fuse                          | 6.1                                | 0                         | 1100 Mtrs  |
| 3.             | Electric and/or Ordinary Detonators  | 6.3                                | 0                         | 3000 Nos.  |

(ख) किसी एक कैलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा [अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञप्ति के लिए]

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

**3 times as above.**

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

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

रेखाचित्र क्र. (Drawing No.) E/SE/KL/22/365(E142137)

दिनांक (Dated) 16/09/2022

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

Survey No. 227/1 Block No.32, ग्राम (Town/Village) : Alakodu Village, Thodupuzha Taluk

जिला (District)

IDUKKI

राज्य (State)

पुलिस थाना (Police Station) : Thodupuzha

पिनकोड (Pincode)

685588

दूरभाष (Phone)

9048365482

ई-मेल (E-Mail)

Kerala

फैक्स (Fax)

7. अनुज्ञप्ति परिसर में निम्नलिखित सुविधाएं अंतर्भूत हैं।

The licensed premises consist of following facilities.

**2 Portable explosive magazines of H & E type bearing serial Nos.74 & 1182 fabricated by M/s.Thekkans Engineering & Fabrication Works, Ernakulam**

8. अनुज्ञप्ति समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबंधों के अधीन रहते हुए अनुदत्त की जाती है।

The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures.

- उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सन्निरमाण संबंधी और अन्य विवरण दर्शित करते हुए)।  
Drawings (showing site, constructional and other details) as stated in serial No. 5 above.
- अनुज्ञप्ति प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञप्ति की 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 अनुज्ञप्ति तारीख 31 मार्च 2027 तक विधिमान्य रहेगी। This licence shall remain valid till **31st day of March 2027.**

यह अनुज्ञप्ति, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपवर्षित इस अनुज्ञप्ति की शर्तों का अधिक्रमण करने या यदि अनुज्ञप्त परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंहत की जा सकती है, जहां वह लागू हो।

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

तारीख | The Date - 14/09/2022

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

**Amendments :**

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 16/09/2022

नवीनीकरण के पृष्ठांकन के लिए स्थान  
Space for Endorsement of Renewal

नवीकरण की तारीख  
Date of Renewal

समाप्ति की तारीख  
Date of Expiry

अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प  
Signature of licensing authority and stamp

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

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

Form DE-2  
(See rule 113 of the Explosives Rules, 2008)  
(Distance Form to be attached to the licence)

Safety distances required to be kept clear around magazine for high explosives or fire works or factory licence number E/SE/KL/22/365(E142137) in form LE-3 granted to Binoy Jose, Elavunmkal (H), Nagappuzha P.O., Kerala-685588 .

| Type of Structure(s)  | Safety distances meters |    |
|---|-------------------------|----|
|   | M                       | UM |
| <b>Inside Safety Distances(ISD)</b>   |                         |    |
| 1 Room or Workshop used in Connection with the Magazine   | 13                      | 19 |
| 2 Any other Explosives Magazine or store House or Factory of the Applicant  |                         |    |
| 3 Magazine Office   |                         |    |
| <b>Middle Safety Distances(MSD)</b>   |                         |    |
| 4 Magazine Keeper's or Chowkidar's Dwelling house   |                         |    |
| 5 Railway including Minerals and Private Railways   |                         |    |
| 6 Canal (in active use) or other navigable water  |                         |    |
| 7 Dock or Pier or Jetty   |                         |    |
| 8 Public Highway or Public Road   |                         | 40 |
| 9 Private Road which is PRINCIPAL means of access to a Temple, Mosque, Church, Gurudwara or other places of worships, Hospital, College, School or Factory            |                         |    |
| 10 River Embankment or Sea Embankment or Public Well  |                         |    |
| 11 Reservoir or Bounded tank/rope way   |                         |    |
| 12 Windmillor or Solar panel for Power Generation   |                         |    |
| <b>Outside Safety Distances(OSD)</b>  |                         |    |
| 13 Dwelling House   |                         |    |
| 14 Govt. and Public Building  |                         |    |
| 15 Temple, Mosque, Church or Gurudwara or other Places of Worships  |                         |    |
| 16 Shops, Market place, Public recreation and Sports Ground, College, School, Hospital, Theater, Cinema or other Building where the public are accustomed to assemble |                         |    |
| 17 Factory  |                         |    |
| 18 Buildings or Works used for the Storage in Bulk of Petroleum, Sprit, gas, or other inflammable or hazardous substances   |                         | 45 |
| 19 Building or Works used for Storage and Manufacture of Explosives or of articles which contain Explosives   |                         |    |
| 20 Aerodrome  |                         |    |
| 21 Furnace, Kiln or Chimney   |                         |    |
| 22 Quarry or mine pit head  |                         |    |
| 23 Power House or Electric Substation   |                         |    |
| 24 Wireless Station   |                         |    |
| 25 Warehouse or other Storage Building  |                         |    |
| 26 Any other Protected works  |                         |    |
| <b>Overhead Electric lines</b>  |                         |    |
| 27 Electric Power over head Transmission Lines above 440V   |                         | 45 |
| 28 Electric Power over head Transmission Lines upto 440V  |                         | 15 |

The Date : 14/09/2022

For Dy. Chief Controller of Explosives  
Ernakulam

**Amendments :**

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 16/09/2022

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

मैगजीन में वर्ग 1,2,3,4,5,6, और 7 के विस्फोटकों को विक्री या प्रयोग हेतु रखने के लिए प्ररूप एल.ई. 3 (अनुच्छेद 3 (ख) से (ग)) में मुख्य विस्फोटक नियंत्रक या विस्फोटक नियंत्रक द्वारा प्रदान किए जाने वाले अनुज्ञापति सं. E/SE/KL/22/365(E142137) की शर्तें निम्नलिखित हैं।  
The following are the conditions of licence number E/SE/KL/22/365(E142137) to possess for sale or use, explosives of Class 1,2,3, 4, 5, 6 and 7 in a magazine in Form L.E-3 (articles 3(b) to (c) ) granted by Chief controller of Explosives or Controller of Explosives.

- परिसर में किसी भी समय विस्फोटकों की मात्रा अनुज्ञापन योग्य सामर्थ्य से अधिक नहीं होगी।  
The quantity of explosives on the premises at any one time shall not exceed the licensable capacity.
- विस्फोटकों के भंडारण के लिए प्रयुक्त होने वाली मैगजीन अनुसूची III और अनुज्ञापति के उपाबंध में विनिर्दिष्ट सुरक्षा दूरी बनाए रखना होगा।  
The magazine used for storage of explosives shall maintain safety distance specified in Schedule III and annexure to the licence.
- मैगजीन का प्रयोग उन सभी विस्फोटकों के, जो इस अनुज्ञापति में विनिर्दिष्ट है, रखे जाने के लिए और ऐसे रखे जाने से संबद्ध आधान या औजार या उपकरणों के रखे जाने के लिए ही किया जाएगा; अन्यथा नहीं।  
The magazine shall be used only for keeping all explosives specified in this licence and of receptacles for, or tools or implements for work connected with the keeping of such explosives.
- पैकजों को खोलने का कार्य और विस्फोटकों को तोलने तथा पैक करने का कार्य मैगजीन में नहीं किया जाएगा।  
The opening of packages and the weighing and packing of explosives shall not be carried on in the magazine.
- दो या दो से अधिक वर्णन के विस्फोटकों को, जिन्हें मैगजीन में रखे जाने की अनुज्ञा दी जा सकती है, मैगजीन में तभी रखे जाएंगे जब उनमें से प्रत्येक को, ऐसे पदार्थ या स्वरूप का कोई मध्यवर्ती विभाजक लगाकर या उनके बीच ऐसा मध्यवर्ती स्थान छोड़कर, परस्पर पृथक कर दिया जाए कि किसी वजह से विस्फोटक में लगने वाली आग या होने वाला विस्फोट किसी अन्य वर्णन के विस्फोटक तक न पहुंच सके। परंतु—  
(घ) 2 (नाइट्रेट मिश्रण), वर्ग 3 (नाइट्रो योगिक) के विभिन्न विस्फोटक, वर्ग 6 प्रथम प्रभाग के अंतर्गत आने वाले सुरक्षा पत्तीते और वर्ग 6 प्रभाग 2 के अंतर्गत आनेवाले विस्फोटक प्रेरक पत्तीते, जिनमें कोई खुला लोहा या इस्पात नहीं है, एक दूसरे के साथ बिना किसी मध्यवर्ती विभाजक या स्थान के रखे जा सकते हैं।  
(ङ) वर्ग 6 प्रभाग 3 के अंतर्गत आनेवाले विस्फोटक प्रेरक अलग रखे जाएंगे।  
(च) वर्ग 6 के अंतर्गत आने वाले बारूद को अलग रखा जाएगा।  
Two or more description or explosives which may be permitted to be kept in the magazine shall be kept only if they are separated from each other by an intervening partition of such substance or character, or by such intervening space, as will effectually prevent explosion or fire in the one communicating with the other: Provided that—  
(d) the various explosives of Class 2 (nitrate-mixture), Class 3 (nitro-compound), safety fuses belonging to Class 6 Division 1 and detonating fuses belonging to Class 6 Division 2 as do not contain any exposed iron or steel, may be kept with each other without any intervening partition or space ;  
(e) Detonators belonging to Class 6 Division 3 shall be kept separately,  
(f) Gun powder belonging to Class 1 shall be kept separately.
- वर्ग 3 (नाइट्रो योगिक) के विस्फोटकों को, उनके विनिर्माण की तारीख से एक वर्ष बीत जाने के पश्चात सिवाय अनुज्ञापन प्राधिकारी की विशेष मंजूरी के मैगजीन में नहीं रखा जाएगा।  
Explosives of Class 3 (nitro compound) shall not be kept in the magazine after the expiration of one year from the date of their manufacture except with the special sanction of licensing authority.
- वर्ग 3 (नाइट्रो योगिक) के विस्फोटकों को, उनके विनिर्माण की तारीख से एक वर्ष बीत जाने के पश्चात मैगजीन में तभी रखा जाएगा जब कि किसी विस्फोटक नियंत्रक ने इसके लिए विशेष मंजूरी दे दी हो।  
(i) जब ऐसी मंजूरी दे दी गई हो तो प्रत्येक निरीक्षण पर किसी विस्फोटक नियंत्रक से ऐसा लिखित प्रमाणपत्र अभिप्राप्त कर लिया जाए जिसमें दी गई मंजूरी के अंतर्गत आनेवाली अवधि दर्शित की गई हो और ऐसे प्रमाणपत्र के अनुज्ञापिधारी अपने पास रखेगा और मांग की जाने पर प्रस्तुत करेगा।  
(ii) जब कोई विस्फोटक भंगनक शुद्धता का न रह जाने के कारण या द्रवणीकरण या नाइट्रो ग्लिसरीन या द्रव नाइट्रो योगिक के निकल जाने के चिन्ह प्रकट होने के कारण मैगजीन में भण्डारित किए जाने के उपयुक्त नहीं रह जाता है तो अनुज्ञापिधारी अपने ही व्यय पर ऐसे विस्फोटक के निपटारे के लिए ऐसे निदेशों का अनुपालन करेगा जो मुख्य नियंत्रक या विस्फोटक नियंत्रक जारी करें।  
Explosives of Class 3 (nitro compound) shall not be kept in the magazine after the expiration of one year from the date of their manufacture except with the special sanction of the Controller of Explosives.  
(i) When such sanction has been given, a written certificate showing the period covered by the sanction shall be obtained from the Controller of Explosives at each inspection, and shall be kept by the licensee and produced on demand.  
(ii) When an explosive owing to its being no longer of standard purity or owing to signs of liquefaction or of exuded nitro-glycerin or liquid nitro-glycerin or liquid nitro-compound is no longer fit for storage in the magazine or store house the licensee shall comply, at his own expense, with such directions as to its disposal as the Chief Controller or Controller of Explosives may issue.
- मैगजीन के भीतरी भाग या उसमें लगी बेंचो, शेल्फों और उसकी फिटिंग का इस प्रकार सन्निर्माण किया जाएगा या उन्हें इस प्रकार अंतरित या अवतरित किया जाएगा कि विस्फोटक का किसी लोहे या इस्पात के साथ संपर्क रोका जा सके। भीतरी भाग में लगी बेंचो, शेल्फें और फिटिंग यथासाध्य ग्रिट से मुक्त एवं साफ रखे जाएंगे तथा ऐसे विस्फोटक, जो जल से खतरनाक रूप में प्रभावित हो सकते हैं, इस बाबत सम्यक सावधानी बरती जाएगी कि वहां कोई जल मौजूद न रहे; परंतु किसी लोहे या इस्पात के खुले होने के विरुद्ध सावधानी से संबंधित इस शर्त का वह भाग ऐसे किसी भवन में बाध्यकर नहीं होगा जिसमें वर्ग 6 (गोला बारूद) के प्रथम के विस्फोटक से भिन्न कोई विस्फोटक रखा गया है।  
The interior of the magazine and the benches, shelves and fittings therein shall be so constructed or so lined or covered as to prevent the exposure of any iron or steel contact with the explosives. Such interior, benches, shelves and fittings shall so far as is reasonably practicable, be kept free from grit and shall otherwise be clean; and in the case of any explosives liable to be dangerously affected by water, due precautions shall be taken to exclude water there from; Provided that so much of this condition as relates to precautions against the exposure of any iron or steel shall not be obligatory in a building in which no explosive other than explosive of the 1st Division 6th (Ammunition) Class is kept.
- यदि तड़ित चालक का परीक्षण विस्फोटक नियंत्रक करता है तो अनुज्ञापिधारी ऐसे परीक्षण के लिए विहित फीस का संचाय करेगा यदि परीक्षण असमाधानकारी साबित होता है तो उतनी ही फीस अनुज्ञापिधारी द्वारा पश्चात्तर्ती प्रत्येक परीक्षण के लिए तब तक दी जाती रहेगी जब तक कि परीक्षण अधिकारी तड़ित चालक को समाधानप्रद घोषित नहीं कर देता परंतु किसी एक परीक्षण के लिए देय फीस किसी एक दिन के दौरान किसी चालक के किए गए सभी परीक्षणों के लिए प्रभार्य होगा।  
परंतु यह और कि यदि दो या अधिक तड़ित चालक एक ही मैगजीन से संबद्ध हैं तो ऐसे सभी चालकों के परीक्षण के लिए फीस ऐसी किसी फीस से अधिक नहीं होगी जो किसी एक तड़ित चालक के परीक्षण के लिए हर स्थिति में विहित की गई है।  
If the lightning conductor is tested by the Controller of Explosives, the licensee shall pay the fees prescribed for test. In the even of the test proving unsatisfactory, the same fees shall be payable by the licensee for each subsequent test until the lightning conductor is passed by the testing officer as satisfactory: Provided that the fees payable for a single test shall be charged for all tests made on a conductor during any one day :  
Provided further that where two or more lightning conductors are attached to one and the same magazine, the fee for the testing of all such conductors shall not exceed the fee prescribed in this condition for testing a single lightning conductor.
- उपयुक्त तथा जब रहित कार्यकरण वस्त्रों, उपयुक्त जूतों के प्रयोग द्वारा तथा तलाशी लेकर या अन्यथा अथवा ऐसे किन्हीं साधनों द्वारा इस बाबत सम्यक उपबंध किया जाएगा कि फैक्ट्री परिसर में अग्नि, दियासलाई अथवा ऐसी कोई वस्तुएं या पदार्थ, जिससे विस्फोट हो सकता है या आग लग सकती हो, किन्तु इस शर्त के कारण ऐसी संरचना, स्थिति या स्वरूप में किसी कृत्रिम बत्ती का प्रवेश वर्जित नहीं है जिससे आग लगने या विस्फोट होने का खतरा न हो।  
परंतु इस शर्त का वह भाग, जो लोहे या इस्पात के अपवर्जन को लागू होता है, ऐसे किसी भवन के संबंध में बाध्य कर नहीं होगा जिससे भिन्न कोई विस्फोटक नहीं रखा गया है।  
Due provisions shall be made, by the use of suitable working clothes without pockets, suitable shoes and by searching or otherwise or by such means, for preventing the introduction into danger area of the factory premises of fire, Lucifer matches or any substance or article likely to cause explosion or fire, but this condition shall not prevent the introduction of an artificial light of such construction, position or character as not to cause any danger of fire or explosion: Provided that so much of this condition as applies to the exclusion of iron or steel, shall not be obligatory in a building in which no explosive other than an explosive of the 1st Division of the 6th (Ammunition) Class is kept.

11. अनुज्ञापिधारी प्ररूप आर.इ.-3 और आर.इ.-4 या आर.इ.-5, जैसी स्थिति है, में सभी विस्फोटकों का अभिलेख और लेखा रखेगा और विस्फोटक नियम, 2008 के अधीन प्राधिकृत किसी भी अधिकारी के समक्ष उसके द्वारा ऐसा करने की मांग की जाने पर स्टॉक पुस्तक और अभिलेख प्रस्तुत करेगा। स्टॉक पुस्तक विहित प्रोफार्मा में पृष्ठ संख्यांकित होगी।  
The licensee shall keep records and accounts of all explosives in Forms RE-3 and RE-4 or RE-5, as the case may be, and exhibit the stock books and records to any of the officers authorised under the Explosives Rules, 2008 whenever such officer may call upon him to do so. The stock books in the prescribed proforma shall be page numbered.
12. परिसरों में कोई परिवर्तन या तबदीली अनुज्ञापन प्राधिकारी के पूर्वानुमोदन बिना नहीं की जाएगी और अनुज्ञापिधारी ऐसी किसी शर्त का अनुपालन करेगा जो इस निमित्त अनुज्ञापन प्राधिकारी विनिर्दिष्ट करे।  
No changes or alterations shall be carried out to the premises without prior approval of the licensing authority and the licensee shall comply with any condition that may be specified by the licensing authority in this behalf.
13. मैगजीन सभी समय पर अच्छी मरम्मत की स्थिति में बनाई रखी जाएगी (या अच्छी हालत में बनाई रखी जाएगी)। यदि किसी कारणवश किसी विस्फोटक के भण्डारण के लिए मैगजीन अनुपयुक्त हो जाती है तो अनुज्ञापिधारी इस बात की सूचना अनुज्ञापन प्राधिकारी को तुरंत देगा।  
Magazine shall at all times be kept in state of good repair (or maintained in good condition). The licensee shall report to licensing authority forthwith, if the magazine becomes unfit for storage of any explosives for any reason whatsoever.  
मैगजीन का अनुज्ञापिधारी इन नियमों के नियम 24 के उप-नियम 3 के अनुसार त्रैमासिक विवरणी प्रस्तुत करेगा।  
The licensee of the magazine shall submit quarterly return as per sub-rules (3) and (4) of rule 24 of these rules.
14. यदि सुरक्षा दूरी का कोई अधिक्रमण होता है तो उसकी सूचना अनुज्ञापन प्राधिकारी को आवश्यक सलाह और कार्यवाही के लिए तुरंत दी जाएगी।  
Any encroachment of the safety distance shall be immediately communicated to the licensing authority for necessary advice and action.
15. यदि कोई विस्फोटक विनष्ट हुआ अथवा अनुपयोगी जाया जाता है तो उसकी सूचना अनुज्ञापन प्राधिकारी को, सलाह प्राप्त करने के लिए, तुरंत दी जाएगी।  
The licensing authority shall be immediately informed for advice if any explosive is found deteriorated or unserviceable.
16. विस्फोटकों के पैकेटों के चढ़े इस प्रकार लगाए जाएंगे कि कम से कम एक व्यक्ति भण्डार किए गए सभी पैकेजों की हालत की जांच करने और प्रत्येक पैकेज की विनिर्माण विशिष्टियों को पढ़ने के लिए उनके बीच से होकर आ जा सके।  
The explosive packages shall be stocked in such a way so as to allow movement of at least one person to check the condition of all packages stored and to read the manufacture particulars of each package.  
तड़ित चालकों की भूमि के लिए प्रतिरोध यथासंभव न्यूनतम होगा और किसी भी दशा में 10 ओह्म से अधिक नहीं होगा।  
The resistance of the lightning conductor to earth shall be as low as possible and in no case be more than 10 ohms.
17. मैगजीन के चारों ओर 15 मीटर की दूरी के अंतर्गत कोई शुष्क घास या झाड़ी या ज्वलनशील सामग्री नहीं रहने दी जाएगी।  
A distance of 15 meters surrounding the magazine or store house shall be kept clear of dried grass or bush or flammable materials.
18. विस्फोटकों के प्रत्येक पैकेट को, जब उसे मैगजीन के भीतर लिया जा रहा हो, ठीक दशा जानने के लिए परीक्षा की जाएगी।  
Every package of explosive at the time of bringing inside the magazine shall be examined for its sound condition.
19. किसी मैगजीन / भण्डारगृह में किसी एक समय में चार व्यक्तियों से अधिक को नहीं रहने दिया जाएगा।  
Not more than 4 persons shall be allowed inside the magazine or store house at any one time.
20. विस्फोटकों के खाली पैकेजों को शीघ्रतश्चिघ्र वहां से हटा दिया जाएगा और नष्ट कर दिया जाएगा।  
Empty packages of the explosives shall be removed at the earliest and destroyed.
21. अनुज्ञापिधारी और कर्मचारियों को परिसर के भीतर आपातकाल के दौरान की जाने वाली प्रक्रियाओं से अवगत होना चाहिए।  
The licensee and the employee shall be conversant with procedure to be taken during the emergency within the premises.
22. निरीक्षण या नमूना अधिकारी को सभी युक्तियुक्त समयों पर अनुज्ञापन परिसर में अबाध रूप से पहुंचने दिया जाएगा और यह सुनिश्चित करने के लिए कि अधिनियम और इन नियमों के उपबंधों और सुरक्षा स्थितियों को सम्यक्तः अनुपालन किया जा रहा है, अधिकारी को प्रत्येक सुविधा प्रदान की जाएगी।  
Free access to the licensed premises shall be given at all reasonable times to any inspecting or sampling officer and every facility shall be afforded to the officer for ascertaining that the provisions of the Act and these rules and the safety conditions are duly observed.
23. यदि अनुज्ञापन प्राधिकारी या विस्फोटक नियंत्रक अनुज्ञापिधारी को अनुज्ञापन परिसरों या मशीनरी, टूल या उपकरण में ऐसी कोई मरम्मत या परिवर्धन या परिवर्तन करने या सिफारिशों को लागू करने को लिखित रूप में सूचित करता है जो परिसर के अंदर या बाहर या व्यक्तियों की सुरक्षा के लिए आवश्यक है, अनुज्ञापिधारी को निष्पादित करेगा और विनिर्दिष्ट अवधि के भीतर अनुपालन रिपोर्ट ऐसे प्राधिकारी को देगा।  
If the licensing authority or a Controller of Explosives informs in writing, the holder of the licence to execute any repairs or to make any additions or alterations to the licensed premises or machinery, tools or apparatus or carry out recommendations, which are in the opinion of such authority may pose unacceptable risk and so necessary for the safety of either on-site or off-site of the premises or persons, the holder of the license shall execute the recommendations and report compliance within the period specified by such authority.
24. अनुज्ञापिधारी मैगजीन में रखने और बिक्री के लिए प्राधिकृत विस्फोटक सूची में उल्लिखित अनुज्ञापन फैक्टरी या कंपनी से प्राधिकृत विस्फोटक / आतिशबाजी या सुरक्षा पत्ती खरीदेगा।  
The licensee shall purchase authorised explosives/ fireworks or safety fuse as mentioned in the list authorised explosives from a licensed factory or company for possession and sale from the magazine.
25. निम्न से अधिक ध्वनि स्तर उत्पादित करने वाले आतिशबाजियों पटाखों की बिक्री और रखने के लिए -  
(क) जो फटने की जगह से चार मीटर की दूरी पर है, 125 डी.बी. (ए.) या 145 डी.बी. (सी) पी.के. प्रतिबंधित होंगे;  
(ख) श्रृंखला (जुड़े हुए पटाख) को गठन करने वाले व्यक्तिगत पटाखों के लिए उपर्युक्त उल्लिखित सीमा 5 लॉग 10 (एन) डी.बी. (सी) पी.के. प्रतिबंधित होंगे;  
The possession and sale of fire-crackers generating noise level exceeding:  
a) 125 dB(A) or 145 dB(C)pk at 4 meters distance from the point of bursting shall be prohibited;  
b) For individual fire-cracker constituting the series (joined fire-crackers), the above mentioned limit be reduced by 5 log<sub>10</sub> (N) dB, where N = number of crackers joined together.
26. आग या विस्फोट द्वारा दुर्घटना या नुकसान पटाखों की कमी या चोरी, तुरंत पास के पुलिस थाने और अनुज्ञापन प्राधिकारी और अनुज्ञापन प्राधिकारी के स्थानीय कार्यालय को रिपोर्ट की जाएगी।  
Accidents by fire or explosion and losses, shortage or theft of explosives shall be immediately reported to the nearest police station and the licensing authority and local office of the licensing authority.

**अतिरिक्त शर्तें / Additional Conditions :**

1. अनुज्ञापिधारी विदेशी मूल के आतिशबाजी को ना प्रदर्शित करेगा, ना रखेगा और ना ही उसकी बिक्री करेगा। The licensee shall not exhibit, possess and sell fireworks of foreign origin.

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

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



# Annexure 7: Calibration Certificate of Vibration Meter

## ENVIRONMENTAL TEST & CALIBRATION LABORATORY

(An ISO : 9001/2000 Certified Company)

(A Centre for Environmental Monitoring, Data Generation, Service & Calibration of Air Pollution Monitoring System, old Monitoring Instruments Hire & Purchase, Services, Supplier of Environmental Monitoring Instruments , Consumables Accessories & Digital On-Line Scientific Goods)

K-307, UPSIDC Industrial Area, Site - V, Kasna, Greater Noida, Distt. - Gautam Budh Nagar- 201310, U.P.  
Call No.: 09267945626, 09999139742 E-mail : etcl.singh@gmail.com / shivshanker300@gmail.com

Job No. 11/2023  
Calibration Certificate No. ETCLVM/36

### CALIBRATION CERTIFICATE

Party Name : M/S Envirodesigns Eco Labs  
Opposite Metro ,Piller No - 544 , Eco Tower ,  
Janatha Junction , Palarivattom , Eranakulam,  
Kochi - 682 025

|                         | <u>Instrument Details</u>                                   | <u>Reference Equipment<br/>Used for Calibration</u> |
|-------------------------|---|---|
| Instrument Model        | : Vibration Meter<br>: VB-8205                              | Digital Vibration Meter<br>AM-4209                  |
| Make                    | : HTC   | Lutron  |
| ID NO.                  | : EEL/VBR/01  | Q962209   |
| Calibration Date        | : 20/04/2023  | 10/02/2023  |
| Calibration Valid Up to | : 19/04/2024  | 09/02/2024  |
| Temperature             | : 27°C  | 26.7°C  |
| Range/Resulation        | : 0.1-400 mm/sec / 0.1 - 400 m/s <sup>2</sup> / 0.001- 4 mm |   |
| Resulation              | : 0.01 mm/sec , 0.1 m/s <sup>2</sup> , 0.001 mm             |   |
| Frequency (Hz)          | : 10- 160   |   |

### CALIBRATION RESULTS

| Sr. No. | Std. Readings by Master (mm/s) | Reading for Unit Under Calibration (mm/s) (Velocity ) | Std. Readings by Master (m/s <sup>2</sup> ) | Reading for Unit Under Calibration (m/s <sup>2</sup> ) (Accelration) | Std. Readings by Master (mm) | Reading for Unit Under Calibration (mm) (Displacement) | Uncertainty     |
|---------|--------------------------------|---|---|--|------------------------------|--|-----------------|
| 1.      | 1.92                           | 1.90  | 1.94  | 1.9  | 0.025                        | 0.029  | +/-1.087 %<br>& |
| 2.      | 7.66                           | 7.40  | 2.69  | 2.4  | 0.087                        | 0.085  |                 |
| 3.      | 20.85                          | 20.90   | 10.89                                       | 10.9   | 0.150                        | 0.159  | +/-1.097 %<br>& |
| 4.      | 114.43                         | 114.40  | 14.40                                       | 14.4   | 0.298                        | 0.296  |                 |
| 5.      | 220.56                         | 220.40  | 20.58                                       | 20.4   | 0.498                        | 0.493  | +/-1.065 %      |
| 6.      | 321.67                         | 321.50  | 21.61                                       | 21.5   | 1.876                        | 1.870  |                 |

For Environmental Test & Calibration Laboratory



*Shivshanker Singh*  
(Shivshanker Singh)  
Chief Executive

# Annexure 8: Copy of Vibration Monitoring Report



ENVIRODESIGNS  
**ECO LABS**  
(Food Quality / Water / Environmental Testing Lab)

ISO 9001: 2015, ISO 45001: 2018 Certified organisation  
Recognised Lab by Ministry of Environment, Forests & Climate Change (Govt. of India) as per E (P) Act 1986  
Approved 'A' grade Lab by Kerala State Pollution Control Board

## VIBRATION MONITORING REPORT

Page 1 of 2

Report No. : EEL/LR/23/0026861/531

Issued To:

Issue Date : December 09, 2023

M/s. ULTRA TECH  
Environmental Consultancy and Laboratory  
No.199, First Floor, Door No. 55/1308- B  
Girinagar, Near Community Hall, Club Road  
Kadavanthra, Kochi-682020.

Customer ref: - Verbal

Project Name: - Granite Building Stone Quarry of Mr. Binoy Jose

Project Location: Alakode Village, Thodupuzha Taluk, Idukki District, Kerala.

Total Lease Area: 1.6200 Ha

Sample receipt form Ref. No. : SRF/V/12/531 dt. 06.12.2023

Monitoring done by: Lab field technicians

### Sample Particulars: Vibration Monitoring

| Date of monitoring             | : December 06, 2023   |                               |                                     |                                 |                               |                |                                     |
|--------------------------------|---|-------------------------------|-------------------------------------|---------------------------------|-------------------------------|----------------|-------------------------------------|
| Blasting Site                  | : Area where blasting has done with specific charge and delay |                               |                                     |                                 |                               |                |                                     |
| Lab identification code        | : V/12/531  |                               |                                     |                                 |                               |                |                                     |
| Method Used                    | : Instrumental method (SOP No. EEL/ENV/MP/01)                 |                               |                                     |                                 |                               |                |                                     |
| <b>Presentation of Results</b> |   |                               |                                     |                                 |                               |                |                                     |
| Vibration Measurement No.      | Blasting Location   |                               | *Location for Vibration Measurement |                                 |                               | Frequency (Hz) | Peak particle velocity (PPV) (mm/s) |
|                                | Location Code   | GPS Coordinates               | Location Code                       | Distance from Blasting Location | GPS Coordinates               |                |                                     |
| 1.                             | B1  | 9°51'45.41"N<br>76°46'10.09"E | M1                                  | 90 m                            | 9°51'43.16"N<br>76°46'8.24"E  | 83             | 7.59                                |
| 2.                             | B2  | 9°51'45.62"N<br>76°46'11.91"E | M2                                  | 125 m                           | 9°51'49.16"N<br>76°46'14.02"E | 68             | 2.91                                |
| 3.                             | B3  | 9°51'43.12"N<br>76°46'10.97"E | M3                                  | 225 m                           | 9°51'36.92"N<br>76°46'15.67"E | 33             | 1.33                                |

Note: \*Details of Houses:

M1  
Ms. Jemini  
Kalingikal (H)  
Alakode Panchayath  
House No. 64  
Ward No. 6.

M2  
Mr. Kunjappan  
Olippurath (H)  
Alakode Panchayath  
House No. 39  
Ward No. 6

M3  
Mr. Johnson  
Panankkat (H)  
Alakode Panchayath



\*This test report shall not be reproduced except in full, without the written permission of the laboratory. \*The liability of the laboratory is to the extent of the testing charges received. \*The above results are related only to the sample (s) submitted for testing and should not be used for advertisement, litigation etc. \*The sample will be disposed after 15 days from the date of issue of test report.



ENVIRODESIGNS  
**ECO LABS**  
(Food Quality / Water / Environmental Testing Lab)

ISO 9001: 2015, ISO 45001: 2018 Certified organisation  
Recognised Lab by Ministry of Environment, Forests & Climate Change (Govt. of India) as per E (P) Act 1986  
Approved 'A' grade Lab by Kerala State Pollution Control Board

Page 2 of 2

Report No. : EEL/LR/23/0026861/531

**DGMS Limit**

Permissible Peak Particle Velocity (ppv) at the foundation level of structures in Mining Areas in mm/s

| Type of structure   | Dominant excitation Frequency, Hz |         |        |
|---|-----------------------------------|---------|--------|
|   | <8 Hz                             | 8-25 Hz | >25 Hz |
| <b>(A) Buildings/structures not belong to the owner</b>           |                                   |         |        |
| (i) Domestic houses/structures(kuchha brick & cement)             | 5                                 | 10      | 15     |
| (ii) Industrial Buildings (RCC & Framed structures)               | 10                                | 20      | 25     |
| (iii) Objects of historical importance & sensitive structures     | 2                                 | 5       | 10     |
| <b>(B) Buildings belonging to owner with limited span of life</b> |                                   |         |        |
| (i) Domestic houses/structures(kuchha, brick & cement)            | 10                                | 15      | 25     |
| (ii) Industrial buildings (RCC & framed structures)               | 15                                | 25      | 50     |

**Instrument used for Monitoring**

Vibration meter, Make: HTC, Model VB-8205, Sl. No. N861716, ID No. EEL/VBR/01

....End of Report...

  
Susar Abraham  
Technical Manager  
Authorised Signatory  
Envirodesigns Eco Labs



\*This test report shall not be reproduced except in full, without the written permission of the laboratory. \*The liability of the laboratory is to the extent of the testing charges received. \*The above results are related only to the sample (s) submitted for testing and should not be used for advertisement, litigation etc. \*The sample will be disposed after 15 days from the date of issue of test report.

**ANNEXURE 9**  
**LABORATORY REPORTS**



ENVIRODESIGNS  
**ECO LABS**  
(Food Quality / Water / Environmental Testing Lab)



ISO 9001:2015, ISO 45001:2018 Certified organisation  
Approved 'A' grade Lab by Kerala State Pollution Control Board  
Accredited Lab by NABL as per ISO 17025:2017 (Cert No: TC-7114)  
Recognised Lab by Ministry of Environment, Forests & Climate Change (Govt. of India) as per E (P) Act 1986

### TEST REPORT

Page 1 of 2

Report No. : EEL/LR/24/0027666/1016  
Issue Date : December 03, 2024

Issued To:  
Mr. Binoy Jose  
Elavumkal Veedu  
Nagapuzha Post  
Ernakulam Dist.  
Kerala State-686668.

Customer ref: - Verbal

Project: - Environmental Monitoring at the project site, quarry owned by Mr. Binoy Jose,  
Survey nos. 336/3-3, 336/3-4 & 395/1 in Alakode Village, Thodupuzha Taluk, Idukki Dist., Kerala.

Sample receipt form Ref. No. : SRF/W/11/1016 dt. 29.11.2024  
Sampling done by: Customer

#### Sample Particulars: Water sample

|  |   |
|--|---|
| Sample receiving date: November 29, 2024   | Lab identification code: W/11/1016                              |
| Analysis starting date : November 29, 2024   | Analysis completion date: December 03, 2024                     |
| Quantity of sample received: 1L x 1  | Description of sample by the customer: Water sample (Open well) |
| Packaging details : Pet bottle   |   |
| Physical appearance of the sample; Clear liquid  |   |
| Tests required: For the parameters listed below, as per Drinking water specification IS 10500:2012 |   |

#### SAMPLE TESTED AS RECEIVED

| Sl. No. | Parameters                          | Unit            | Method                | Result         | Requirement (Acceptable limit) |
|---------|-------------------------------------|-----------------|-----------------------|----------------|--------------------------------|
| 1.      | pH at 25°C                          | ---             | IS 3025 (Pt 11):2022  | 6.9            | 6.5-8.5                        |
| 2.      | Odour                               | ---             | IS 3025 (Pt 5): 2018  | Agreeable      | Agreeable                      |
| 3.      | Colour                              | Hazen Units,max | IS 3025 (Pt 4):2021   | 3.0            | 5.0                            |
| 4.      | Turbidity                           | NTU,max         | IS 3025 (Pt 10):1984  | BDL(MDL-0.5)   | 1.0                            |
| 5.      | Total Dissolved Solids              | mg/l,max        | IS 3025(Pt 16):2023   | 60             | 500                            |
| 6.      | Total Hardness as CaCO <sub>3</sub> | mg/l,max        | IS 3025 (Pt 21):2009  | 26             | 200                            |
| 7.      | Chloride as Cl                      | mg/l,max        | IS 3025(Pt 32):1988   | 14.68          | 250                            |
| 8.      | Sulphate as SO <sub>4</sub>         | mg/l,max        | IS 3025(Pt 24):2022   | 7.22           | 200                            |
| 9.      | Alkalinity as CaCO <sub>3</sub>     | mg/l,max        | IS 3025(Pt 23):1986   | 20.30          | 200                            |
| 10.     | Iron as Fe                          | mg/l,max        | IS 3025 (Pt 53):2003  | 0.02           | 1.0                            |
| 11.     | Calcium as Ca                       | mg/l,max        | IS 3025(Pt 40):1991   | 8.02           | 75                             |
| 12.     | Magnesium as Mg                     | mg/l,max        | IS 3025(Pt 46):1994   | 1.46           | 30                             |
| 13.     | Free Residual Chlorine              | mg/l,min        | IS 3025 (Pt 26):2021  | BDL(MDL-0.1)   | 0.2                            |
| 14.     | Fluoride as F                       | mg/l,max        | IS 3025(Pt 60):2008   | BDL(MDL-0.2)   | 1.0                            |
| 15.     | Manganese as Mn                     | mg/l,max        | IS 3025 (Pt 2) : 2019 | BDL(MDL-0.01)  | 0.1                            |
| 16.     | Zinc as Zn                          | mg/l,max        | IS 3025 (Pt 2) : 2019 | BDL(MDL-0.01)  | 5.0                            |
| 17.     | Cadmium as Cd                       | mg/l,max        | IS 3025 (Pt 2) : 2019 | BDL(MDL-0.001) | 0.003                          |
| 18.     | Lead as Pb                          | mg/l,max        | IS 3025 (Pt 2) : 2019 | BDL(MDL-0.005) | 0.01                           |

Note:- BDL: Below Detection Limit

MDL: Minimum Detection Limit

\*This test report shall not be reproduced except in full, without the written permission of the laboratory. \* The liability of the laboratory to the extent of the testing charges received. \*Sampling is not done by the laboratory unless specified. \*\* The above results are relate only to the sample(s) tested unless the sampling is performed by the laboratory. The test report issued by the laboratory shall not be used for advertisement, litigation etc. \*The sample will be disposed of after 15 days from the date of issue of test report.



ENVIRODESIGNS  
**ECO LABS**  
(Food Quality / Water / Environmental Testing Lab)



ISO 9001:2015, ISO 45001:2018 Certified organisation  
Approved 'A' grade Lab by Kerala State Pollution Control Board  
Accredited Lab by NABL as per ISO 17025:2017 (Cert No: TC-7114)  
Recognised Lab by Ministry of Environment, Forests & Climate Change (Govt. of India) as per E (P) Act 1986

Page 2 of 2

Report No. : EEL/LR/24/0027666/1016

| Sl. No. | Parameters                                       | Method         | Result | Requirement                                 |
|---------|--|----------------|--------|---|
| 1.      | Total coliform bacteria/100ml                    | IS 15185 :2016 | Absent | Shall not be detectable in any 100ml sample |
| 2.      | E.coli or thermotolerant coliform bacteria/100ml | IS 15185 :2016 | Absent | Shall not be detectable in any 100ml sample |

....End of Report....

Susan Abraham  
Technical Manager  
Authorised Signatory  
Envirodesigns Eco Labs

Jesty M. T.  
Dy.Tech. Manager-Microbiology  
Authorised Signatory  
Envirodesigns Eco Labs



\*This test report shall not be reproduced except in full, without the written permission of the laboratory. \* The liability of the laboratory is to the extent of the testing charges received. \*Sampling is not done by the laboratory unless specified. \*\* The above results are related only to the sample(s) tested unless the sampling is performed by the laboratory. The test report issued by the laboratory shall not be used for advertisement, litigation etc. \*The sample will be disposed of after 15 days from the date of issue of test report.



ENVIRODESIGNS  
**ECO LABS**  
(Food Quality / Water / Environmental Testing Lab)



ISO 9001:2015, ISO 45001:2018 Certified organisation  
Approved 'A' grade Lab by Kerala State Pollution Control Board  
Accredited Lab by NABL as per ISO 17025:2017 (Cert No: TC-7114)  
Recognised Lab by Ministry of Environment, Forests & Climate Change (Govt. of India) as per E (P) Act 1986

**TEST REPORT**

Page 1 of 1

Report No. : EEL/LR/24/0027667/1017  
Issue Date : December 03, 2024

Issued To:  
Mr. Binoy Jose  
Elavumkal Veedu  
Nagapuzha Post  
Ernakulam Dist.  
Kerala State-686668.

Customer ref: - Verbal

Project: Environmental Monitoring at the project site, quarry owned by Mr. Binoy Jose,  
Survey nos. 336/3-3, 336/3-4 & 395/1 in Alakode Village, Thodupuzha Taluk, Idukki Dist., Kerala.

Sample receipt form Ref. No. : SRF/SO/11/1017 dt. 29.11.2024

Sampling done by: Customer

**Sample Particulars: Soil sample**

| Sample receiving date: November 29, 2024         | Lab identification code: SO/11/1017                |       |   |                 |
|--|--|-------|---|-----------------|
| Analysis starting date: November 29, 2024        | Analysis completion date: December 03, 2024        |       |   |                 |
| Quantity of sample received: 2kg                 | Description of sample by the customer: Soil sample |       |   |                 |
| Packaging details: Plastic cover                 |  |       |   |                 |
| Tests required: For the parameters listed below; |  |       |   |                 |
| <b>SAMPLE TESTED AS RECEIVED</b>                 |  |       |   |                 |
| Sl. No.  | Parameters   | Unit  | Method  | Result          |
| 1.   | Soil Type  | --    | SOP No. EEL/WP/SO/08                          | Sandy clay loam |
| 2.   | Colour   | --    | SOP No. EEL/WP/SO/08                          | Brownish red    |
| 3.   | Moisture Content                                   | %     | IS 2720(Pt 2):1973                            | 8.47            |
| 4.   | Water Holding Capacity                             | %     | Indian Bureau of Mines Analysis of Soil: 2012 | 59.63           |
| 5.   | Conductivity                                       | µS/cm | IS 14767:2000                                 | 136             |
| 6.   | pH   | --    | IS 10158:1982                                 | 6.9             |
| 7.   | Organic Carbon                                     | %     | IS 2720(Pt 22):1972                           | 0.31            |
| 8.   | Total Nitrogen                                     | %     | IS 14684:1999                                 | 0.19            |
| 9.   | Phosphorus   | mg/kg | SOP No. EEL/WP/SO/10                          | 216.35          |
| 10.  | Potassium  | mg/kg | SOP No. EEL/WP/SO/10                          | 182.43          |

.....End of Report.....

Susan Abraham  
Technical Manager  
Authorised Signatory  
Envirodesigns Eco Labs



\*This test report shall not be reproduced except in full, without the written permission of the laboratory. \* The liability of the laboratory is to the extent of the testing charges received. \*Sampling is not done by the laboratory unless specified. \*\* The above results are related only to the sample(s) tested unless the sampling is performed by the laboratory. The test report issued by the laboratory shall not be used for advertisement, litigation etc. \*The sample will be disposed of after 15 days from the date of issue of test report.



ENVIRODESIGNS  
**ECO LABS**  
(Food Quality / Water / Environmental Testing Lab)



ISO 9001:2015, ISO 45001:2018 Certified organisation  
Approved 'A' grade Lab by Kerala State Pollution Control Board  
Accredited Lab by NABL as per ISO 17025:2017 (Cert No: TC-7114)  
Recognised Lab by Ministry of Environment, Forests & Climate Change (Govt. of India) as per E (P) Act 1986

**TEST REPORT**

Page 1 of 2

Report No. : EEL/LR/24/0027668/1018  
Issue Date : December 03, 2024

Issued To:  
Mr. Binoy Jose  
Elavumkal Veedu  
Nagapuzha Post  
Ernakulam Dist.  
Kerala State-686668.

Customer ref: - Verbal

Project: - Environmental Monitoring at the project site, quarry owned by Mr. Binoy Jose,  
Survey nos. 336/3-3, 336/3-4 & 395/1 in Alakode Village, Thodupuzha Taluk, Idukki Dist., Kerala.

Sample receipt form Ref. No. : SRF/A/11/1018 dt. 29.11.2024

Sampling done by: Lab field technicians

**Sample Particulars: Ambient Air sample**

Date of monitoring : November 28, 2024 to November 29, 2024  
Location of monitoring: Ambient Air Monitoring at various locations  
Location of sampler : 3.2 m above ground level  
Sampling method : Monitoring Protocol No. EEL/ENV/MP/01  
Sample receiving date : November 29, 2024  
Analysis starting date : November 30, 2024  
Lab identification code: A/11/1018  
Analysis completion date: December 03, 2024  
Tests required: For the parameters listed below, as per CPCB guidelines

**SAMPLE TESTED AS RECEIVED**

| Sl. No. | Parameters   | Unit              | Method                 | Result         |                |                |                | Limit (max)* |
|---------|--|-------------------|------------------------|----------------|----------------|----------------|----------------|--------------|
|         |  |                   |                        | A <sub>1</sub> | A <sub>2</sub> | A <sub>3</sub> | A <sub>4</sub> |              |
| 1.      | Particulate matter (Size less than 10µm) or PM <sub>10</sub>   | µg/m <sup>3</sup> | IS 5182(Pt 23):2006    | 70.36          | 68.45          | 65.76          | 66.39          | 100          |
| 2.      | Particulate matter (Size less than 2.5µm) or PM <sub>2.5</sub> | µg/m <sup>3</sup> | CPCB guidelines 2011   | 31.39          | 25.46          | 27.08          | 26.94          | 60           |
| 3.      | Sulphur dioxide  | µg/m <sup>3</sup> | IS: 5182 (Pt 2):2001   | 12.36          | 11.74          | 10.94          | 9.76           | 80           |
| 4.      | Nitrogen dioxide   | µg/m <sup>3</sup> | IS: 5182 (Pt 6): 2006  | 15.06          | 14.78          | 13.16          | 11.49          | 80           |
| 5.      | Carbon Monoxide (8hrs)   | mg/m <sup>3</sup> | IS: 5182 (Pt 10): 1999 | 0.80           | 0.90           | 0.70           | 0.90           | 2.0          |

Note:- \* Limit applicable for 24 hour Ambient Air Quality monitoring for Industrial, Residential, Rural and other Areas as per National Ambient Air Quality Standards 2009.

A<sub>1</sub>- (North side) GPS coordinates : 9°51' 48.00" N 76°46' 10.72" E  
A<sub>2</sub>-(South side) GPS coordinates : 9°51' 42.16" N 76°46' 11.39" E  
A<sub>3</sub>- (East side) GPS coordinates : 9°51' 45.86" N 76°46' 14.98" E  
A<sub>4</sub>-(West side) GPS coordinates : 9°51' 45.45" N 76°46' 9.65" E



\*This test report shall not be reproduced except in full, without the written permission of the laboratory. \* The liability of the laboratory is to the extent of the testing charges received. \*Sampling is not done by the laboratory unless specified. \*\* The above results are related only to the sample(s) tested unless the sampling is performed by the laboratory. The test report issued by the laboratory shall not be used for advertisement, litigation etc. \*The sample will be disposed of after 15 days from the date of issue of test report.

Lab: Eco Tower, Opp. Metro Pillar No. 544, Janatha Junction., Palarivattom, Kochi - 682 025.  
Ph:0484 - 3597691, Mob:9349126109 Email: lab@envirodesigns.in Web: www.envirodesigns.in



ENVIRODESIGNS  
**ECO LABS**  
(Food Quality / Water / Environmental Testing Lab)



ISO 9001:2015, ISO 45001:2018 Certified organisation  
Approved 'A' grade Lab by Kerala State Pollution Control Board  
Accredited Lab by NABL as per ISO 17025:2017 (Cert No: TC-7114)  
Recognised Lab by Ministry of Environment, Forests & Climate Change (Govt. of India) as per E (P) Act 1986

Report No. : EEL/LR/24/0027668/1018

**Weather and Meteorological Data**

Weather condition: Partly sunny

| Meteorological Parameters     | Max | Min |
|-------------------------------|-----|-----|
| Temperature ( <sup>o</sup> C) | 31  | 24  |
| Humidity (%)                  | 91  | 60  |

**Instruments used for Monitoring**

- 1) Fine Particulate Sampler (FPS), Make: Envirotech Instruments Pvt. Ltd., Model : APM 550, ID. No. EEL/FPS/02, EEL/FPS/03, EEL/FPS/04, EEL/FPS/05
- 2) Respirable Dust Sampler (RDS), Make: Envirotech Instruments Pvt. Ltd., ID. No. : EEL/RDS/02, EEL/RDS/03, EEL/RDS/04, EEL/RDS/05
- 3) CO ANALYZER, Make: Endee Engineers, Model :IR-200, ID NO.:EEL/COA/01
- 4) CO ANALYZER, Make: Endee Engineers, Model :IR-50, ID NO.:EEL/COA/02

....End of Report....

  
Susan Abraham  
Technical Manager  
Authorised Signatory  
Envirodesigns Eco Labs



\*This test report shall not be reproduced except in full, without the written permission of the laboratory. \* The liability of the laboratory is to the extent of the testing charges received. \*Sampling is not done by the laboratory unless specified. \*\* The above results are related only to the sample(s) tested unless the sampling is performed by the laboratory. The test report issued by the laboratory shall not be used for advertisement, litigation etc. \*The sample will be disposed of after 15 days from the date of issue of test report.



ENVIRODESIGNS  
**ECO LABS**  
(Food Quality / Water / Environmental Testing Lab)



ISO 9001:2015, ISO 45001:2018 Certified organisation  
Approved 'A' grade Lab by Kerala State Pollution Control Board  
Accredited Lab by NABL as per ISO 17025:2017 (Cert No: TC-7114)  
Recognised Lab by Ministry of Environment, Forests & Climate Change (Govt. of India) as per E (P) Act 1986

**NOISE LEVEL MONITORING REPORT**

Page 1 of 2

Report No. : EEL/LR/24/0027669/1019  
Issue Date : December 03, 2024

Issued To:  
Mr. Binoy Jose  
Elavumkal Veedu  
Nagapuzha Post  
Ernakulam Dist.  
Kerala State-686668.

Customer ref: - Verbal

Project: - Environmental Monitoring at the project site, quarry owned by Mr. Binoy Jose,  
Survey nos.336/3-3, 336/3-4 & 395/1 in Alakode Village, Thodupuzha Taluk, Idukki Dist., Kerala.

Sample receipt form Ref. No. : SRF/N/11/1019 dt. 29.11.2024

Monitoring done by: Lab field technicians

**Sample Particulars: Noise Level Monitoring**

|                         |  |
|-------------------------|--|
| Date of monitoring      | : November 28, 2024 to November 29, 2024 |
| Source of monitoring    | : Ambient Noise Level monitoring         |
| Sampling method         | : Monitoring Protocol No. EEL/ENV/MP/01  |
| Lab identification code | : N/11/1019                              |
| Method Used             | : IS 9989:1981                           |

**Presentation of Results**

| Sl. No. | Time of Monitoring(Hrs) | Value Reported in dB (A) $L_{eq}$ |                |                |                |
|---------|-------------------------|-----------------------------------|----------------|----------------|----------------|
|         |                         | N <sub>1</sub>                    | N <sub>2</sub> | N <sub>3</sub> | N <sub>4</sub> |
| 1.      | 10.00 – 11.00           | 53.6                              | 54.6           | 53.8           | 53.6           |
| 2.      | 11.00 – 12.00           | 54.8                              | 53.3           | 54.5           | 53.9           |
| 3.      | 12.00 – 13.00           | 52.1                              | 52.6           | 53.2           | 51.6           |
| 4.      | 13.00 – 14.00           | 51.7                              | 52.3           | 52.8           | 53.7           |
| 5.      | 14.00 – 15.00           | 52.2                              | 51.8           | 52.3           | 52.4           |
| 6.      | 15.00 – 16.00           | 53.9                              | 52.8           | 51.2           | 54.2           |
| 7.      | 16.00 – 17.00           | 52.6                              | 53.2           | 53.6           | 52.8           |
| 8.      | 17.00 – 18.00           | 51.2                              | 52.6           | 51.4           | 52.2           |
| 9.      | 18.00 – 19.00           | 50.8                              | 51.2           | 50.7           | 51.7           |
| 10.     | 19.00 – 20.00           | 49.7                              | 50.6           | 50.3           | 50.6           |
| 11.     | 20.00 – 21.00           | 48.2                              | 49.7           | 48.7           | 49.7           |
| 12.     | 21.00 – 22.00           | 47.1                              | 48.3           | 47.6           | 48.5           |
| 13.     | 22.00 – 23.00           | 44.1                              | 42.5           | 43.6           | 44.7           |
| 14.     | 23.00 – 00.00           | 43.8                              | 41.7           | 43.2           | 44.1           |
| 15.     | 00.00 – 01.00           | 42.1                              | 42.6           | 42.5           | 43.2           |
| 16.     | 01.00 – 02.00           | 42.2                              | 40.3           | 41.5           | 42.1           |
| 17.     | 02.00 – 03.00           | 43.6                              | 43.7           | 40.7           | 40.3           |

\*This test report shall not be reproduced except in full, without the written permission of the laboratory. \* The liability of the laboratory is to the extent of the testing charges received. \*Sampling is not done by the laboratory unless specified. \*\* The above results are related only to the sample(s) tested unless the sampling is performed by the laboratory. The test report issued by the laboratory shall not be used for advertisement, litigation etc. \*The sample will be disposed of after 15 days from the date of issue of test report

**ANNEXURE 10**  
**CER**



കേരള സർക്കാർ  
ഭാരതീയ ചികിത്സ വകുപ്പ്  
നാഷണൽ ആയുഷ് മിഷൻ  
ആലക്കോട് ഗ്രാമപഞ്ചായത്ത്

Govt. OF KERALA  
INDIAN SYSTEM OF MEDICINE  
NATIONAL AYUSH MISSION  
ALAKODE GRAMPANCHAYATH



## സർക്കാർ ആയുർവേദ ഡിസ്പെൻസറി

GOVT. AYURVEDA DISPENSARY

ആയുഷ് ഹെൽത്ത് ആന്റ് വെൽനെസ്സ് സെന്റർ / AYUSH HEALTH & WELLNESS CENTRE

ഫോൺ / PHONE : 04862275356 , E-MAIL: gadalakkode@gmail.com

നാമ: ആയുർവേദ ഡിസ്പെൻസറി  
 ആലക്കോട് NABH അക്രിഡിറ്റേഷൻ  
 ചട്ടാച്ചട്ടാമാർഗ്ഗനന്ദിപ്പള്ളം അച്ചടക്കം  
 വേണ്ടതായ ചട്ടാച്ചട്ടാ കിണറൻ  
 ചട്ടാച്ചട്ടാ, ചെങ്കിട്ടിൻ തടവില  
 നിലവിൽ ഇപ്പോൾ അച്ചടക്കം  
 ശ്രീ. ബിനോയ് ജോൺ ചട്ടാച്ചട്ടാ  
 ടിക്റ്റൂർ ചട്ടാച്ചട്ടാ (Query of  
 Binoy Jose, Anchiri. P.O, Inchiyan,  
 Alakode, Idukki, EC No: EC 22B001KL147310)  
 Corporate Social Responsibility

൧൫൯൯ ഉപഭോഗിച്ച് 2024

കാലാവസ്ഥ 28-30 തീയതി  
കൂടെ 51 സൂചനകളിൽ നിർ  
മ്മാണപ്രവർത്തനങ്ങൾ നടന്നതും  
൧൫൯൯ തിരിച്ചറിയുന്നതും

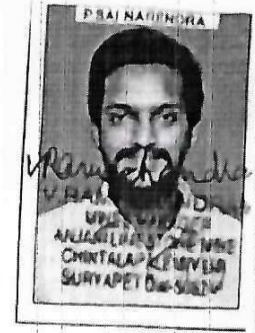


*Handwritten signature in green ink*  
22/6/2024

മേധാവിയുടെ സ്ഥാനം  
കേരള സംസ്ഥാന പദ്ധതി കമ്മീഷൻ  
കാലത്തു

**ANNEXURE 11**  
**CERTIFICATE OF**  
**MINES MANAGER**

Cert No. SMR-E /8417



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

श्री पेंटा साई नरेंद्र

सुपुत्र

पेंटा पोथुराजू

जिनकी जन्म तिथि 29.07.1995

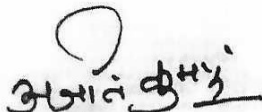
है, को विहित अर्हताएं एवं अनुभव प्राप्त करने का सन्तोषजनक प्रमाण प्रस्तुत करने पर एतद्वारा केवल ओपनकास्ट धात्विकीय खानों के प्रबंधन हेतु द्वितीय श्रेणी प्रबंधक सक्षमता प्रमाण-पत्र प्रदान किया जाता है। यह प्रमाण-पत्र दिनांक 31 दिसम्बर 2021 से प्रभावी है।

Shri PENTA SAI NARENDRA

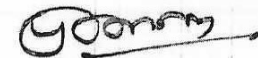
son of PENTA POTHURAJU

born on 29 JULY 1995

having given satisfactory evidence of possessing the prescribed qualifications and experience is hereby granted SECOND CLASS MANAGER'S CERTIFICATE OF COMPETENCY to manage the metalliferous mines having opencast workings only. This certificate is effective from. 31.12.2021

  
सचिव

खनन परीक्षा बोर्ड  
Secretary  
Board of Mining  
Examinations

  
अध्यक्ष

खनन परीक्षा बोर्ड  
Chairman  
Board of Mining  
Examinations

Signed and Sealed

Date 24.03.2023

**SMR-E**

To

PENTA SAI NARENDRA

Home Address

Village PATA THAGEDU  
PO THAGEDU  
Police Station KOTAURATLA  
District VISAKHAPATNAM  
State A.P-531085

प्रमाणित किया जाता है कि उनकी सक्षम चिकित्सा अधिकारी द्वारा स्वास्थ्य परीक्षा कर  
खान में कार्य करने के लिए स्वस्थ घोषित किया जाता है।

Certified that he has been examined by qualified medical  
officer and declared fit for employment in mines.


1 \_\_\_\_\_ को 2 \_\_\_\_\_ को  
On On

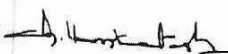
3 \_\_\_\_\_ को 4 \_\_\_\_\_ को  
On On

5 \_\_\_\_\_ को 6 \_\_\_\_\_ को  
On On

7 \_\_\_\_\_ को 8 \_\_\_\_\_ को  
On On

9 \_\_\_\_\_ को 10 \_\_\_\_\_ को  
On On

Prepared by 

Checked by 



భారత విశిష్ట గుర్తింపు ప్రాధికార సంస్థ

భారత ప్రభుత్వం

Unique Identification Authority of India  
Government of India

నమోదు సంఖ్య / Enrollment No. : 1118/70503/00379

01/06/2013

To  
Penta Sai Narendra  
పంట సాయి నరేంద్ర  
S/O: Penta Pothuraju  
6-15A  
near ramalayam temple  
Pata Thangedu  
Thangedu  
Kotauratia, Visakhapatnam  
Andhra Pradesh - 531085  
7382916546



KL150406284FT

15040628



మీ ఆధార్ సంఖ్య / Your Aadhaar No. :

**5176 5460 0161**

ఆధార్ - సామాన్యుని హక్కు



భారత ప్రభుత్వం

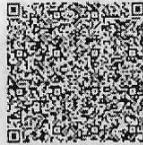
Government of India

పంట సాయి నరేంద్ర  
Penta Sai Narendra



పుట్టిన సంవత్సరం / Year of Birth: 1995  
పురుషుడు / Male

**5176 5460 0161**



ఆధార్ - సామాన్యుని హక్కు

**ANNEXURE 12**  
**CERTIFICATE OF**  
**FOREMAN**



S. SHAMEER BASHA



MINES MANAGER  
LI IRON ORE MINI  
TA INDUSTRIES LIMIT  
Chahali (Vi.), Pordlimari (I)  
Madhya Pradesh (A. B.)

Cert No. FRE /4198

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

श्री शेक शमीर बासा

सुपुत्र

शेक महाबूब बासा

जिनकी जन्म तिथि 02.04.1997

है, को विहित अर्हताएं एवं अनुभव प्राप्त करने

का सन्तोषजनक प्रमाण प्रस्तुत करने पर एतद्वारा केवल ओपनकास्ट धात्विकीय खानों के लिए फोरमैन सक्षमता प्रमाण-पत्र प्रदान किया जाता है। यह प्रमाण-पत्र दिनांक 31 जनवरी 2019 से प्रभावी है।

Shri SHAIK SHAMEER BASHA

son of SHAIK MAHABOOB BASHA

born on 02 April 1997

having given satisfactory evidence of possessing

the prescribed qualifications and experience is hereby granted FORMAN'S CERTIFICATE OF COMPETENCY for metalliferous mine having opencast workings only. This certificate is effective from 31.01.2019

सचिव

खनन परीक्षा बोर्ड

Secretary

Board of Mining

Examinations

अध्यक्ष

खनन परीक्षा बोर्ड

Chairman

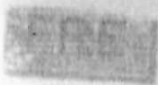
Board of Mining

Examinations

26/12/23

Signed and Sealed

Date 31-01-2019



To  
 SHAIK SHAMFER BASHA

Home Address

Village PULIVENDULA  
 P.O. PULIVENDULA  
 Office Station PULIVENDULA  
 District KADAPA  
 State ANDHARA PRADESH

प्रमाणित किया जाता है कि उनकी सक्षम चिकित्सा अधिकारी द्वारा स्वास्थ्य परीक्षा कर  
 खान में कार्य करने के लिए स्वस्थ घोषित किया जाता है ।  
 Certified that he has been examined by qualified medical  
 officer and declared fit for employment in mines.

|   |          |    |          |
|---|----------|----|----------|
| 1 | _____ को | 2  | _____ को |
|   | On       |    | On       |
| 3 | _____ को | 4  | _____ को |
|   | On       |    | On       |
| 5 | _____ को | 6  | _____ को |
|   | On       |    | On       |
| 7 | _____ को | 8  | _____ को |
|   | On       |    | On       |
| 9 | _____ को | 10 | _____ को |
|   | On       |    | On       |

Prepared by  
 Checked by *Prabhu*

