

# **HALF YEARLY COMPLIANCE REPORT FOR GRANITE STONE QUARRY**

**File No. 1773/EC6/2020/SEIAA Dated 23/08/2022**

**Building Stone Quarry Project of  
Sri. Mithun  
Managing Director,  
M/s. Vezhakkode Granites Pvt Ltd**

**Situated At  
Sy. No. 161/2, 161/3, 161/4, 145/1  
In  
Urangattiri Village,  
Ernad Taluk,  
Malappuram District,  
Kerala.**

**April 2023 – September 2023**

**Prepared By  
PRIME TECHNOLOGY SERVICES  
Planet Resources Management Experts  
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To,

The Director MoEF&CC,  
Regional Office (South Zone), KendriyaSadan,  
IVthfloor, E&F Wing ,17th main Road,  
Second Block,Koramangala Banglore .

Respected Sir,

Sub: Half Yearly Compliance Report of Granite Stone Mine Project- April 2023 – September 2023.

Ref: File No. 1773/EC6/2020/SEIAA Dated 23/08/2022

With reference to the above we are submitting Half Yearly Compliance report for the EC order, mentioned above. Also enclosed here, copy of consent to Establish from Kerala SPCB, and Compliance Monitoring report of the last season.

Mr. Mithun

Place: Malappuram

Date: 30/12/2023

(Authorized Signatory)

**Copy to,**

**Member secretary / Chairman**

**SEIAA Kerala**

**KSRTC Complex, Thampanoor**

**Thiruvananthapuram, Kerala**

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## **1.INTRODUCTION**

The Building Stone Quarry Project situated at Sy No; 161/2, 161/3, 161/4, 145/1 in Urangattiri Village, Ernad Taluk, Malappuram District, Kerala Building Stone Quarry project of Sri. Mithun was obtained with the Environmental Clearance (File No.1773/EC6/2020/SEIAA) by State Environmental Impact Assessment Authority on 23/08/2022 As part of general condition No.48 of Environmental Clearance order and EIA Notification the half yearly compliance report needs to be submitted by the project proponent.

This report contains the compliance of the conditions of Environmental Clearance for the period of April 2023 – September 2023.

**COMPLIANCE TO THE CONDITION STIPULATED IN THE ENVIRONMENTAL CLEARENCE ISSUED BY STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, KERALA.**

**2. SPECIFIC CONDITIONS**

**Table 2. SPECIFIC CONDITIONS**

<b>Sl. No</b>	<b>Specific Conditions</b>	<b>Compliance Status</b>
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.	We carry out the quarry as per the approved mining plan and strictly follow the Kerala mineral Concession Rules 2015 and amendment thereby.
2.	The EC shall be valid from the date of execution of lease/permit from the Department of Mining and Geology. The copy of the lease order should be provided to the SEIAA before commencing the mining activity.	Noted
3.	The seasonal water flow along the south east part of the site (outside) should not be disturbed.	We assure that seasonal water flow along the south east part it can't be disturbed.
4.	Before blasting the columnar rocks should be removed using rock breaker.	We assure that columnar rock should be removed using rock breaker before blasting.
5	The garland canal, silt traps, siltation pond and outflow channel should be provided covering the entire project area.	Noted
6	The garland canal, silt traps, siltation pond and outflow channel should be desilted periodically to facilitate unhindered overland drainage and geotagged photograph should be incorporated in the Half Yearly Compliance Report.	We Scrupulously follows the directions and all details are add to the Half yearly compliance report.
7	Green belt development in the buffer should be done in the first year of the project itself using trees of indigenous species and it should be nurtured and maintained in subsequent years	Noted
8	Compensatory afforestation should be done with indigenous fruit trees and the geocoordinates of the afforested place with photographs should be provided along with HYCR.	We done with compensatory afforestation with indigenous fruits trees and the geocoordinates of afforested place photographs are provided along with HYCR.

9	Measures incorporated in the CER should be implemented in total during the first two years and it should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.	Noted
10	Transportation of mined material should not be done during the peak hours in the forenoon (8.30am to 10.30am) and afternoon (3.30pm to 5 pm).	We wouldn't be transport the mined materials during peak hours in forenoon and afternoon.
11	Impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of Peak Particle Velocity and amplitude for a maximum charge per delay and included in the Half Yearly Compliance Report.	Noted
12	The overburden dumping site should be located at the lowest portion of the project area and it should be protected with appropriate retaining wall.	Overburden dumping site is located at lower portion of the projected area and it will be protected with appropriate retaining wall.
13	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.	Noted
14	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.	We are using NONEL Blasting Technology has been adopted to reduce the Vibration on ground as per the recommendation from DMG and SEIAA

15	<p>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&amp;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.</p>	<p>Noted for compliance and we will scrupulously follow the directions contained. The working of the quarry is just beginning. The reclamation will be started gradually and the benches will be reclaimed with plantation, flora, fauna etc.</p>
16	<p>The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.</p>	<p>Noted</p>

### 3.GENERAL CONDITIONS

**Table 3. GENERAL CONDITIONS**

<b>Sl. No</b>	<b>General Conditions</b>	<b>Compliance Status</b>
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.	An assurance in the form of affidavit was submitted to SEIAA Kerala by the project proponent.
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.	We obtained all the statutory clearances from the respective competent authorities including blasting and storage of explosives and all copies of statutory clearance submitted with the first half yearly compliance report.
3	The project proponent should advertise in newspapers that the project has been accorded Environmental Clearance and copies of clearance letters are available in the Office of State Environment Impact Assessment Authority (SEIAA) and on the website of the Authority at <a href="http://www.seiaakerala.in">www.seiaakerala.in</a> . The advertisement should be making 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 done with two local newspapers and the environmental clearance impact assessment authority are upload the website <a href="http://www.seiaakerala.in">www.seiaakerala.in</a> .
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.	We assure that send a copy of the EC to concerned Grama panchayath and Environmental clearance also be upload 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.	We obtain the safety precautions of the project area before and after mining, The lease area shall be fenced with barbed wire to a minimum height of 4ft around and 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	A display board shows all the details about the project and EC provided at the entrance of the quarry site.

	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.	Magazines stored in isolated area specified and approved by the explosives Department.
8	Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged stipulated by Explosive Department.	We provide the Warning alarms on the site area to indicate the blasting timings.
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.	We assure that transportation minerals 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..	EMC with suitable qualified personal set up under the chairmanship of a Senior executive. The cell have representative of biodiversity management committee of the panchayath and a representative of NGO if any area. EMC meet at once in six months and discuss the activities.
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.	Scrupulously follows the directions contained.
12	The quarrying operation shall be restricted between 7 AM and 5PM	We strictly restricted quarrying operation between 7AM and 5 PM.
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.	Rain water harvesting facility installed as per the prevailing provisions of KMBR/KPBR. Maximum available solar energy generation and utilization are ensured as an essential part of this 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°.	We assure that maximum depth of mining should not be deeper than local ground water table and mining operation carried out at place 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.	We check the height of any bench should not exceed five meters and breadth shall not 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.	We 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.	Scrupulously follows the directions contained.
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.	We 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 planted along the sides of the approach road and internal roads and open parking areas. Proper maintenance are provided on the planted seedlings.
19	The proponent should ensure that the vegetation in the buffer is retained, maintained and strengthened with additions of native broad leaved plants.	We 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 ecorestoration 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.	Scrupulously follows the directions contained.
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	Scrupulously follows the directions contained.

	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.	Quarrying activities 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.	We conducted inspection and records the details of periodically monitoring of the vibration at specified location and near the distance of 50m and 100m of project area.
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 trucks follow the rules and regulations of the mine site is limited to moderate speed of 25kmph and 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.	provide 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.	We are using NONEL Blasting Technology has been adopted to reduce the Vibration on ground as per the recommendation from DMG and SEIAA. A licensed person will be controlled the blasting operations.
27	Measures should be taken for maintaining noise levels below 85dBA in the work Environment.	We measures noise level and take for maintaining noise levels below 85dBA 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.	We 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 an perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly compliance reports to SEIAA.	Scrupulously follows the directions contained.
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	Catch drains and siltation ponds of appropriate size will 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 collected water utilized for watering the mine area, roads, and for green

	regularly desilted and maintained properly, particularly after monsoon.	belt development etc. The drains 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.	Scrupulously follows the directions contained.
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.	Provided garland drains and silt traps in slopes around the core area to channelize storm water. De silting of garland canal and silt traps are attended in daily basis. A labour have in specifically assigned for this purpose. We 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.	The company shall abide by the directions of SEIAA Kerala. At present the project is running as per plan submitted in Environmental Impact Assessment Authority, Govt. of India and approved mining plan. There is no change in the scope of the project. The project will seek for a new Environmental clearance in the case of any changes in the scope of the project.
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) Act1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.	Strict Compliance is adhered to and is reviewed periodically by the top management. Monitoring reports of air, noise, water attached
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 450. 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	Scrupulously follows the directions contained

	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.	Mining equipments are regularly maintained and serviced for their efficient functioning and reducing pollution.
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.	All vehicles used for transportation and within the mines at “PUC” certificate from authorized pollution.
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 PM10 and PM2.5. 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.	Scrupulously follows the directions contained
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.	We regularly controlled fugitive dust emissions from the all sources and regularly maintained and water spraying arrangement provided project site, parking area, on haul roads, loading and unloading and at transport points.
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 .	Scrupulously follows the directions contained
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.	We responsible for implementing all the provisions of labour laws applicable from time to time to quarrying /Mining operations. The workers on the site will 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.	We provided insurance protection to workers.
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.	Conducting health surveillance program of the workers will be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
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.	We used for activities like water harvesting, aqua culture etc. in an ecofriendly 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.	Scrupulously follows the directions contained.
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.	Scrupulously follows the directions contained.
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.	Scrupulously follows the directions contained.
48	The proponent shall submit Half Yearly Compliance Reports (1stof June & 1stof 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 31stMarch every year.	We assure submit half yearly reports in soft copy and SEIAA will upload it on the website.
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	We fully cooperated to the officer(s) of the regional office by furnishing the requisite data/information/monitoring reports.

	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 or consent given by any other authority for the same project.	Scrupulously follows the directions contained
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.	The company shall abide by the directions of SEIAA Kerala
52	The EC given will be withdrawn at any time if the area is declared high hazardous by the SDMA.	Scrupulously follows the directions contained.
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.	We strictly followed the environmental clearance will subject to the final order of the courts.
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.	Scrupulously follows the directions contained.
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.	We scrupulously follow the rules and regulations and conceiving the factor data or submission of fabricated.
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.	Scrupulously follows the directions contained
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.	Scrupulously follows the directions contained

#### **4.ENVIRONMENTAL MONITORING CELL**

**Table 4. Environmental Monitoring**

Sl No	Name	Designation	
1	Sri. Mithun	Head of the cell	Frame policies monitoring the activities
2	M/s Prime Technology Services	Environmental Consultant	Provide technical guidance for sound environmental friendly business
3	M/S Standards(MoEF recognized Lab )	Environmental Monitoring Agency	Monitor Ambient Air, Noise, water and soil periodically

# **ANNEXURES**

**ANNEXURE 1**

**Environmental Clearance**



ENVIRONMENTAL  
CLEARANCE



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

To,

The MD  
M/S VEZHAKKOD GRANITES PVT LTD  
Kannamparamb,Cheruvadi P.O,Kozhikode District -673661

**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/142599/2020 dated 28 Jul 2020. The particulars of the environmental clearance granted to the project are as below.

1. EC Identification No.	<b>EC22B001KL170109</b>
2. File No.	1773/EC6/2020/SEIAA
3. Project Type	New
4. Category	B2
5. Project/Activity including Schedule No.	1(a) Mining of minerals
6. Name of Project	Granite Building Stone Quarry of Mithun.K
7. Name of Company/Organization	M/S VEZHAKKOD GRANITES PVT LTD
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: 23/08/2022

(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,  
Shri.K.Krishna Panicker, Member, Dr.V.Venu IAS, Member Secretary)*

**Sub:- Environmental Clearance for the Granite Building Stone Quarry Project of Sri.Mithun, Managing Director, M/s.Vezhakkode Granites Ltd., Kannamparamb, Cheruvadi P.O, Kozhikkode - Granted – Orders issued.**

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

**Proposal No. SIA/KL/MIN/142599/2020**

**File No. 1773/EC6/2020/SEIAA**

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- Ref: 1. Application for EC received on 28.07.2020 from Shri.Mithun  
2. Minutes of the 128<sup>th</sup> meeting of SEAC held on 23<sup>rd</sup> & 24<sup>th</sup> May 2022  
3. Minutes of the 115<sup>th</sup> meeting of SEIAA held on 30<sup>th</sup> June 2022  
4. G.O(Rt.) No.29/2019/Envt dt.12.04.2019

**ENVIRONMENTAL CLEARANCE NO.102/Q/2022**

Sri.Mithun, Managing Director, M/s.Vezhakkode Granites Ltd., Kannamparamb, Cheruvadi P.O, Kozhikkode submitted an application for Environmental Clearance through PARIVESH on 28.07.2020 for the Granite Building Stone Quarry Project for an area of 0.8949 Ha in Block No.27, Survey No. 161/2, 161/3, 161/4, 145/1 in Urangattiri Village, Ernad Taluk, Malappuram District, Kerala. The project details are as follows:

<b>SL.No</b>	<b>Particulars</b>	<b>Details</b>
1	Name of the Project	Granite Building Stone Quarry Project of Sri.Mithun

2	Proposed Activity	Mining of Granite Building Stone
3	Name of the Sector & Schedule No. (in the EIA Notification, 2006)	Non Coal mining, Activity 1(a), Category B2
4	Name & Address of the Project Proponent	Sri.Mithun, Managing Director, M/s.Vezhakkode Granites Ltd., Kannamparamb, Cheruvadi P.O, Kozhikkode
5	Project Location	
	a) Block No.	27
	b) Survey Nos	161/2, 161/3, 161/4, 145/1
	c) Revenue Village & Panchayath	Urangattiri
	d) Taluk	Ernad
	e) District	Malappuram
6	Geo Co-ordinates	Latitude (N) 11°14'57.03"N to 11°15'1.35"N Longitude (E) 76° 5'36.99"E to 76° 5'41.20"E
7	Extent (in Hectare)	0.8949
8	Project Cost	₹ 1,06,00,000/-
9	Production details	35000 MTA
10	Water Requirement & Source	2.5 KLD  Open Well
11	Power Requirement& Source	75 kW  Diesel Engine
12	Field Inspection Details	Date of Field Inspection : 16.08.2021

## CER Details

<b>Year</b>	<b>Activity</b>	<b>Amount</b>
2021-2022	Provide 10 Solar Street Light units costing Rs. 30,000 per unit in Vezhakkode – Choolattippara (Chekkunnumala) road in Urangattiri Grama Panchayath.	<b>30000 x 10 = 3,00,000</b>
2022-2026	Maintenance and Service charges to Urangattiri Grama Panchayath.	<b>50,000</b>
2022-2023	Provide 3kw off grid Solar Panel facility in Govt. Primary Health centre, Poovathikkal	<b>3,00,000</b>
2022-2026	Maintenance and Service charges to Govt. Primary Health centre, Poovathikkal.	<b>50,000</b>
	<b>Total</b>	<b>7,00,000</b>

2. In the 128<sup>th</sup> meeting of SEAC held on 23<sup>rd</sup> & 24<sup>th</sup> May 2022, the Committee verified the documents submitted by the proponent and found them satisfactory. The Committee discussed the field inspection report and recommended EC for a period of 5 years subject to certain Specific Conditions in addition to the General Conditions.

3. In the 115<sup>th</sup> SEIAA meeting held on 30<sup>th</sup> June 2022, the Authority decided to issue Environmental Clearance for the project life of 5 years for the quantity mentioned in the approved Mining Plan subject to the following Specific Conditions in addition to the General 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 lease/permit from the Department of Mining and Geology. The copy of the lease order should be provided to the SEIAA before commencing the mining activity.*
3. *The seasonal water flow along the south east part of the site (outside) should not be disturbed.*

4. Before blasting the columnar rocks should be removed using rock breaker.
5. The garland canal, silt traps, siltation pond and outflow channel should be provided covering the entire project area.
6. The garland canal, silt traps, siltation pond and outflow channel should be desilted periodically to facilitate unhindered overland drainage and geotagged photograph should be incorporated in the Half Yearly Compliance Report.
7. Green belt development in the buffer should be done in the first year of the project itself using trees of indigenous species and it should be nurtured and maintained in subsequent years
8. Compensatory afforestation should be done with indigenous fruit trees and the geocoordinates of the afforested place with photographs should be provided along with HYCR.
9. Measures incorporated in the CER should be implemented in total during the first two years and it should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.
10. Transportation of mined material should not be done during the peak hours in the forenoon (8.30am to 10.30am) and afternoon (3.30pm to 5 pm).
11. Impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of Peak Particle Velocity and amplitude for a maximum charge per delay and included in the Half Yearly Compliance Report.
12. The overburden dumping site should be located at the lowest portion of the project area and it should be protected with appropriate retaining wall.
13. 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.*

14. *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.*
15. *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.*
16. *The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

**4. Environmental Clearance as per the EIA Notification, 2006 is hereby accorded for the Granite Building Stone Quarry Project of Sri. Mithun, Managing Director, M/s. Vezhakkode Granites Ltd., Kannamparamb, Cheruvadi P.O, Kozhikkode for an area of 0.8949 Ha in Block No.27, Survey No. 161/2, 161/3, 161/4, 145/1 in Urangattiri Village, Ernad Taluk, Malappuram District, Kerala, for the project life of 5 years, from the date of execution of valid mining lease/permit from the Department of Mining and Geology as per S.O.1807 (E) dated 12.04.2022 of MoEF&CC, for the quantity mentioned in the approved Mining Plan, subject to the Specific Conditions suggested by SEIAA in Para 3 above, and all the environmental impact mitigation and management measures undertaken by the Project Proponent in the Form I, EMP, PFR and Mining Plan submitted to SEIAA. The assurances and clarifications given by the proponent will be deemed to be a part of this Proceedings as if incorporated herein. Also the General**

**Conditions for projects stipulated for mining (items 1 to 57), mentioned below will be applicable and have to be strictly adhered to.**

5. The Environmental Clearance issued will also be subject to full and effective implementation of all the undertakings given in the Application Form, mitigation measures as assured in the Environment Management Plan and the mining features including Progressive Mine Closure Plan as submitted with the application. The above undertakings and the conditions and the undertakings in (Mining), (Blasting), (Mines Drainage), (Stacking of Mineral rejects and Disposal of waste), (Environment Management Plan) & (Progressive Mine Closure Plan) of the Mining Plan as submitted will be deemed to be part of this Proceedings as conditions as undertaken by the proponent, as if incorporated herein.
6. Validity of the Environmental Clearance will be **Five (5) years** from the date of execution of valid mining lease/permit from the Department of Mining & Geology 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.
7. 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, Malappuram.
8. 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 the 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.
9. The given address for correspondence with the authorised signatory of the project is Sri.Mithun, Managing Director, M/s.Vezhakkode Granites Ltd., Kannamparamb, Cheruvadi P.O, Kozhikkode.

## **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 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<sup>o</sup>. 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, inconsistent, or simplified, contained in any other permit, license or 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.Mithun,  
Managing Director,  
M/s.Vezhakkode Granites Ltd.,  
Kannamparamb, Cheruvadi P.O,  
Kozhikkode – 673 661

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, 4th Floor KSRTC Bus Terminal, Thampanoor, Thiruvananthapuram, Kerala 695001.
4. The District Collector, Malappuram
5. The Director, Mining & Geology, Thiruvananthapuram -4.
6. The Member Secretary, Kerala State Pollution Control Board
7. The District Geologist, Malappuram
8. The Tahsildhar, Ernad Taluk, Malappuram District
9. The Secretary, Urangattiri Panchayat Office Areekode Othayi-Edavanna Rd, Therattammal, Malappuram - 673639
10. The Chairman, SEIAA.
11. Website.
12. S/f
13. O/c

Signature Not Verified  
Digitally signed by Dr. Venu V IAS  
Member Secretary  
Date: 8/23/2022 3:03:05 PM

**ANNEXURE 2**

**Quarry Permit**

**FORM M**  
 (See sub – rule(2) of rule 9)  
 (For all type of quarrying permits)

**GOVERNMENT OF KERALA  
 DEPARTMENT OF MINING & GEOLOGY, DISTRICT OFFICE,  
 MALAPPURAM  
 QUARRYING PERMIT FOR EXTRACTION OF GRANITE BUILDING STONE  
 GRANTED  
 UNDER RULES 3(1),9 AND 10 OF THE KERALA MINOR MINERAL  
 CONCESSION RULES, 2015**

**No.18/2023-24/DOMAL-  
 DMG/1677/2023-M**

**Dated : 30-11-**

**2023**

**Sri. Mithun, Managing Director, Vezhakkode Granites Pvt. Ltd, Kannamparambu, Cheruvadi (P.O), Kozhikkode** is hereby permitted to extract and remove **Granite Building Stone** from an area of 0.8949 H in Survey Nos. **161/2, 161/4, 161/3-1, 145/1-2 o f Urangattiri Village of Ernad Taluk of Malappuram District, Kerala State** under rule 3(1) and 9 of the Kerala Mineral Concession Rules, 2015 subject to the conditions mentioned in rule 10.

Quantity of extraction of mineral permitted : First year-35000 MT (royalty paid)  
 (Not applicable in the case of CRP System) Second year-35000MT( subject to the payment of royalty)  
 Third Year-35000 MT( subject to the payment of royalty)

Whether the permit holder opted CRP System : No

Number of mineral transit passes to be issued : E-pass will be issued in Kompass portal

Name and address of the owner of the land : Kunhimon, Babu, S/O Koru, Kannamparambu H, Cheruveed (P.O), Kozhikode  
 Midhun, S/O Kunhimon, Kannamparabu (H), Cheruvadi (P.O) Kozhikode

Under mineral concession/particulars of consent/ : Notarised consent submitted

NOC received from the occupier of the land (if applicable )

Date of expiry of permit : **29.11.2026**

(\* the validity of movement permit will  
 be subject to the payment of Royalty)

**Details of fee remitted**

Item	Chalan No.&Date	Amount	Name of Treasury
Application fee	KL021096095202324E DTD. 11.10.2023	1,000/-	e-challan

Royalty	KL025841528202324M DTD-24.11.2023	1680000/- ( for first year only)	e-challan
Surface Rent	KL026314113202324E Dtd-30.11.2023	720/-	e-challan
Addl.Royalty remitted,if any	-	-	

( Office Seal)

Geologist

To:

Kunhimon, Babu, S/O Koru, Kannamparambu  
H, Cheruveed (P.O), Kozhikode  
Midhun, S/O Kunhimon, Kannamparabu (H),  
Cheruvadi (P.O)  
Kozhikode

Signed by Reena Narayanan  
P K  
Date: 30-11-2023 12:19:11  
Reason: Approved

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

**ANNEXURE 3**

**Consent from KSPCB**

**FILE NO : KSPCB/MA/ICO/10010269/2022**

**Date of issue : 12-09-2022**



**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. : 10010269**

**Dated : 24-08-2022**

**To**

**Vezhakkode Granites Pvt Ltd.**

**Vezhakkode, Poovathikkal Post, Urangattiri, Malappuram-673639**

**Consent No. : KSPCB/MA/ICO/10010269/2022**

**Valid Upto : 31-07-2027**

## 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	<b>VALIDITY</b>	31-07-2027
2	Name and Address of the establishment	Vezhakkode Granites Pvt Ltd. Vezhakkode, Poovathikkal Post, Urangattiri, Malappuram-673639
3	Occupier Details	Mithun K Managing Director, Vezhakkode Granites Ltd., Kannamparamba, Cheruvadi Post, Kozhikode-673661
4	Local Body	Urangattiri Panchayat
5	Survey Number	RS No.161/2, 161/3, 161/4, 145/1
6	Village	Urangattiri
7	Taluk	Ernad
8	District	MALAPPURAM
9	Capital Investment(Rs in Lakhs)	106.0
10	Scale	Small
11	Category	RED
12	Annual fee(Rs)	25000.0
	Total Fee remitted(Rs)	137500.0
13	Activity	Quarrying activity in 0.8949Ha-120 MT Metric Tonnes/Day
14	Machinery details	Quarrying in an area of 0.8949Ha of land in RS No.161/2, 161/3, 161/4, 145/1, Urangattiri Village, Ernad Taluk, Malappuram district

## GENERAL CONDITIONS

1. This consent is granted subject to the power of the Board to review and make variation in or revoke any of the conditions as the Board deems fit as per the relevant Acts/Rules.
2. The applicant shall comply with the instructions that the Board may issue from time to time regarding prevention and control of air, water, land and sound pollution.
3. For renewal of the consent in case of continuance of discharge /operation of the industry, application in the prescribed form shall be submitted through the web portal of the Board for Online Consent Management & Monitoring System 2 months prior to the date of expiry. Late application will be accepted only with fine.
4. No change or alteration of the industrial plant is to be made without the prior written permission of the Board. Any change in the particulars furnished and/or in the identity of the occupier/authorised agent is to be intimated to the Board forthwith.
5. This consent is granted on the basis of the affidavit furnished by the applicant. If the statement furnished in the affidavit find false, the consent issued will be revoked and prosecution will be launched against the unit.
6. The location of the quarry shall be as per the approved drawing attached
7. There shall be minimum distance of 50m from the quarrying point to nearest residence as per PCB/HO/Circular-01/03/2017/B dated 10.10.2017.
8. Boundary shall be fenced before operation of quarrying activities.
9. The concentration of PM10 at the boundary shall not exceed 100 microgram/m<sup>3</sup>.
10. After extraction at the site is completed, the land may be used for rain water harvesting with protective barriers/any other suitable approved purpose or may be reclaimed.
11. The applicant shall comply with the instructions that the Board may issue from time to time regarding the prevention and control of Air, Water, Land and Sound Pollution.
12. No change or alteration of the quarrying area is to be made without the prior written permission of the Board. Any change in the particulars furnished and/or in the identity of the occupier/ authorized agent is to be intimated to the Board forthwith.
13. The ambient air quality measured at 1 m outside the boundary of the premises shall not exceed the ambient air quality applicable to the adjoining area.
14. The sound level measured at 1 m outside the boundary of the premises shall not exceed the ambient sound level applicable to the adjoining area.
15. Suitable species of trees and curtain plants shall be planted and maintained within and along the periphery of the premises, forming a green belt to improve the environment.
16. The consentee shall put up a sign board of size 6x4 ft. near the main entrance of the plant to display the name of the unit and important consent conditions.

- 17.Bench cutting method shall be adopted for quarrying.
- 18.Blasting and quarrying shall be done without causing any nuisance or damage to occupants of adjoining or neighbouring land or building or posing damage to health,life or property.
- 19.Mining below normal water table by continuous pumping shall be avoided in summer period (March,April,May)to prevent drinking water shortage in that area.
- 20.The applicant shall submit copies of all relevant permits/ lease/certificate/licences periodically to this office to ensure the validity of this consent.

Reference:-

- 1.Environmental Clearance Identification No. EC22B001KL170109 dated 23/08/2022.
- 2.Explosive licence No .E/SE/KL/22/39(E87415) valid up to 13/09/2021.
- 3.Mining And Geology LOI No: DOM/M-2690/17 dated 21/03/2018.

Digitally signed by VARUN NARAYANAN  
GOPINATHAN  
Date: 2022.09.12 15:24:02 IST

SIGNATURE OF ISSUING AUTHORITY

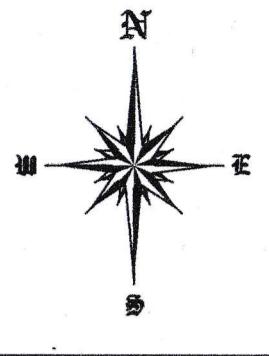
ENVIRONMENTAL ENGINEER

DISTRICT : MALAPPURAM  
TALUK : ERANAD  
VILLAGE : URANGATTIRI

No. 607/22

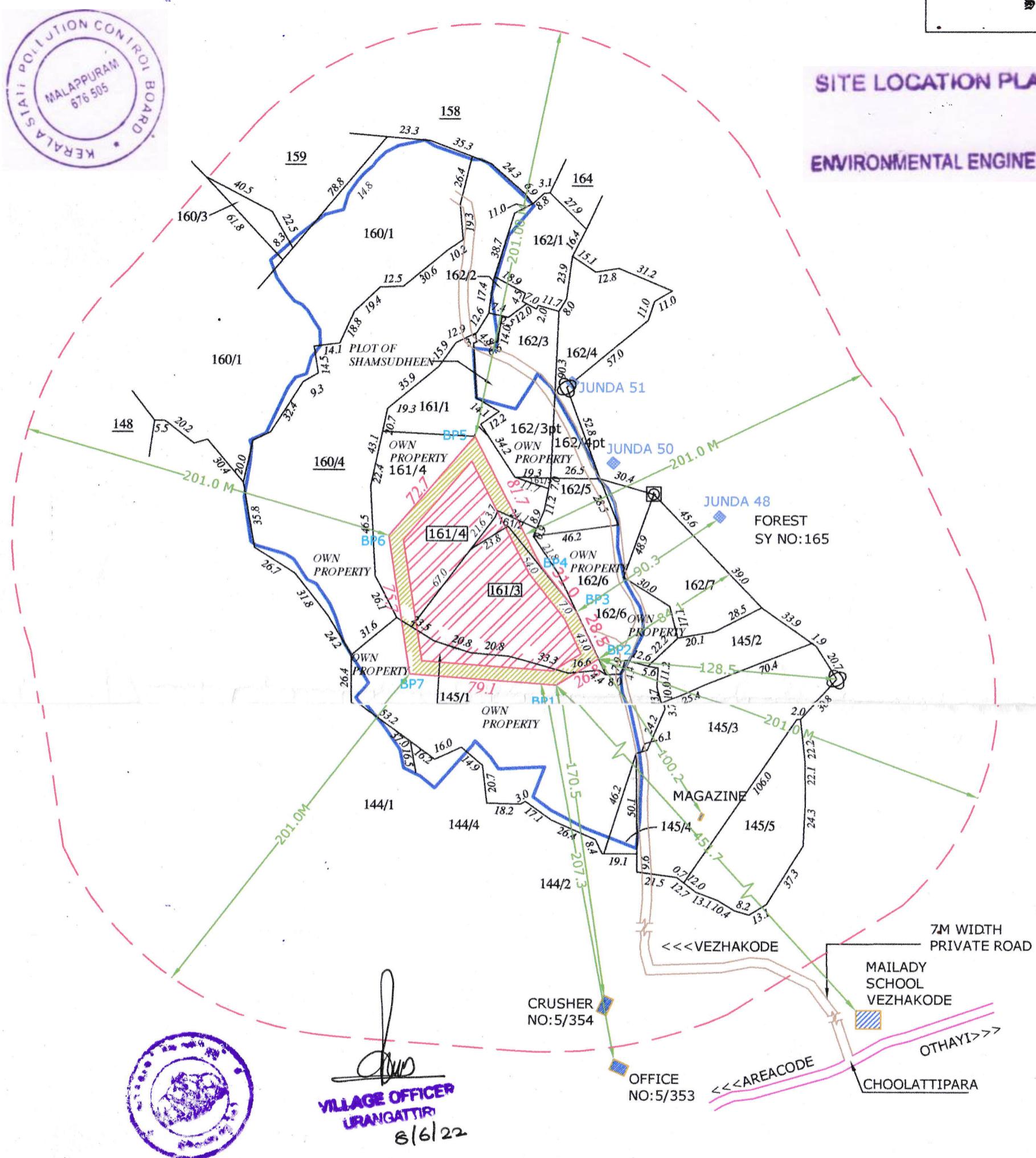
## **SURVEY MAP**

RS NO: 161/2, 161/3, 161/4, 145/1,

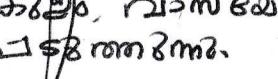


## SITE LOCATION PLAN

#### **ENVIRONMENTAL ENGINEER**



தென்கால நிலைமேகள் பொதுமயின் முறையிலேயுள்ளது

PROPERTY DETAILS					LEGEND						
SL NO	DOCUMENT NO	RS NO	AREA OF LAND		NAME OF OWNER		PROPOSED PERMIT AREA INCLUDING BUFFER  BUFFER AREA  HOUSE / BUILDING  OVER ALL BOUNDARY  PRIVATE ROAD  PWD/PANCHAYATH ROAD  ROCK MARK/SURVEY STONE  JUNDA  MINING AREA = 0.6244 Ha BUFFER AREA = 0.2705 Ha PROPOSED PERMIT AREA = 0.8949 HA SCALE 1 CM = 25 M				
			IN POSSESSION	PROPOSED							
1	16/14	161/2	0.0410 Ha	0.0230 Ha	KANNAMPARAMB KUNHUMON						
2	1720/14	161/4	0.5400 Ha	0.3230 Ha	KANNAMPARAMB KUNHUMON, BABU&MIDHUN						
3	544/13	161/3	0.4047 Ha	0.4045 Ha							
4	543/13	145/1	0.4752 Ha	0.1444 Ha							
TOTAL AREA :			1.4609 Ha	0.8949 Ha							
ദുരന്ത വൈദികവൈദ്യമാരുടെ മുൻസിപ്പൽ നഗരത്തിലെ 200 റൂഫ് അഞ്ചിലിൽ ശ്രീരാധാകുമാരവാസം, റബ്ബോറേഴ്സ്, കൊച്ചി ജില്ലയിലെ ഒരു ഗ്രാമപഞ്ചായത്ത് ഭരണ മന്ത്രിയുടെ പരമ്പരാഗ്രാമം.											
 <b>VILLAGE OFFICER</b> <b>URANGATTIRU</b>											

**ANNEXURE 4**

**Explosive License**

**अनुज्ञापि प्ररूप एल. ई.-३ | LICENCE FORM LE-3**

(विस्फोटक नियम, 2008 की अनुसूची 4 के भाग 1 के अनुच्छेद 3(क) से (घ) देखिए।)  
(See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008)

(ग) उपयोग के लिए एक समय पर वर्ग 1,2,3,4,5 या वर्ग 7 के विस्फोटक या किसी मैगजीन में वर्ग 6 के विस्फोटक रखने के लिए अनुज्ञापि  
Licence to possess : (c) for use, explosives of class 1, 2,3,4,5,6 or 7 in a magazine

**अनुज्ञापि सं. (Licence No.) : E/SE/KL/22/39(E87415)**

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

1. Licence is hereby granted to

**Mithun. Managing Director (अधिभोगी / Occupier : Mithun. Managing Director), Vezhakkode Granites Pvt. Ltd., 279/384, Kannamparamb. Cheruvadi Post,Kodiyathur, Town/Village - Kodiyathur, District-KOZHIKODE, State-Kerala, Pincode - 673662**



को अनुज्ञापि अनुदत्त की जाती है।

2. अनुज्ञापिता की प्राप्ति | Status of licensee : Individual

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

4. अनुज्ञापि विस्फोटकों के निम्नलिखित किसी, प्रकार और मात्रा के लिए विधिमान्य है।

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

क्र Sr. No.	नाम और विवरण Name and Description	वर्ग और प्रभाग Class & Division	उप-प्रभाग Sub-division	मात्रा किसी एक समय में Quantity at any one time
1.	Nitrate Mixture	2 ,0	0	75 Kg.
2.	Ordinary Detonator	6 ,3	0	2000 Nos.
3.	Electric Detonators	6 ,3	0	2000 Nos.
4.	Safety Fuse	6 ,1	0	1100 Mtrs

(ख) किसी एक कॉलैंडर 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)]:

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

: रेखाचित्र क्र. (Drawing No.) E/SE/KL/22/39(E87415)  
: दिनांक (Dated) 10/02/2023

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

Survey No. 145/3 (Block 27), Ernad (T), ग्राम (Town/Village) : **Quengattiri पुलास थाना (Police Station) : Areacode**

जिला (District) दूरभाष (Phone)	<b>MALAPPURAM</b> <b>9745572682</b>	राज्य (State) ई. मेल (E-Mail)	Kerala	पिनकोड (Pincode) फैक्स (Fax)	<b>673662</b>
-----------------------------------	----------------------------------------	----------------------------------	--------	---------------------------------	---------------

7. अनुज्ञापि परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं।

The licensed premises consist of following facilities.

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

1. उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सन्त्रिमण संबंधी और अन्य विवरण दर्शित करते हुए)।

Drawings (showing site, constructional and other details) as stated in serial No. 5 above.

2. अनुज्ञापि प्राधिकारी व्यारारा हस्ता. क्षरित इस अनुज्ञापि की शर्तें और अतिरिक्त शर्तें।

Conditions and Additional Conditions of this licence signed by the licensing authority.

3. दूरी प्ररूप DE-2 | Distance Form DE-2.

9. यह अनुज्ञापि तारीख 31 मार्च 2020 तक स्थिमान रहेगी। This licence shall remain valid till **31st day of March 2020**.

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 - 09/06/2015

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

**Amendments :**

- Amendment in Drawings/Facilities/Premises dated : 14/11/2022
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 19/12/2022
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 10/02/2023

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
23/01/2023	31/03/2028	Sd/- Dy. Chief Controller of Explosives, Ernakulam

**कानूनी चेतावनी :** विस्फोटकों को गलत ढंग से चलाने या उनका दुरुपयोग विधि के अधीन गंभीर दांड़िक 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.**

**ANNEXURE 5**

**Panchayath License**



സംഖ്യ: 249/2022-2023/B4/2973/22

തീയതി: 20.10.2022

### മുൻജാട്ടിരി ഗ്രാമപഞ്ചായത്ത്

മുൻജാട്ടിരി പി.എ., മലപ്പറക്ക് (കുള്ളം)

പിന്: 673639, ഫോൺ: 0483 2850249, ഇ-മെയിൽ: mpmurangattirigp@gmail.com

വ്യവസായം, വാണിജ്യം, സംരക്ഷണം, മറ്റ് സേവനങ്ങൾക്കുള്ള ലൈസൻസ്

(കെ.പി.എൽ ഒക്കെ സെക്കണ്ട് 232, FTE & OS ലൈസൻസ് ചട്ടമോൾ 1996)

ലൈസൻസിക്കുദ്ദേശ്യം	ലിംഗം		
ലൈസൻസിക്കുദ്ദേശ മേഖലാസംബന്ധിച്ച വിവരം	മുൻജാട്ടിരി ഗ്രാമപഞ്ചായത്ത്, കുള്ളംപറമ്പിൽ ഹാസ് റെഫറൻസ്(വി) 673661		
സ്ഥാപനത്തിന്റെ പേരും, സ്ഥലനാമവും	സ്പേഷ്യൽ ഗ്രാമപഞ്ചായത്ത് ഡോ. വിനീറു		
ലൈസൻസ് നാമക്രിയാഗ്രഹിക്കുന്ന പ്രവർത്തനങ്ങൾ	കരിക്കൽ വന്നും ചെയ്ത വിവരങ്ങൾ നടത്തുന്നതിന്		
ബാധക നാമക്രിയാഗ്രഹിക്കുന്നത്	ഒരു മുൻജാട്ടിരി വില്ലേജ് 161/2,3,4, 145/1		
ലൈസൻസ് കാബാബധി	20.10.2022	വാതിൽ	31.03.2027
	കുക്കു	നമ്പിൽ നമ്പർ	തീയതി
ലൈസൻസ് കിലോമീറ്റർ	25000/- രൂപ	1220101896	20.10.2022
ശാശ്വത കിലോമീറ്റർ			
ഒരുപിംഗ് നികുതി	12500/- രൂപ	1220101896	20.10.2022
ലൈസൻസ് അനുവദി-ക്കുന്നതിന് സാക്ഷാക്കിയ നിരാക്കപ്പ പത്രങ്ങളുടെ വിശദാംശങ്ങൾ (നമ്പർ, തീയതി, കാലാവധി, നടക്കിയ ഘായികാര സ്ഥലപട്ടം)	<p>Environmental Clearance EC22B001KL170109 DTD.23.08.2022 . E/KL/22/J9(E87415) DTD.09.06.2015 of Dy. Chief Controller of Explosives valid up to 31.03.2023,PCB Consent file o.KSPCB/MA/ICO/10010269/2022 DTD.12.09.2022 VALID UPTO 31.07.2027</p> <p>1. Letter of indent No.DOM/M-2690/17 DTD.21.03.2018 of Dept. of Mining &amp; Geology Malappuram Dist. Office അനുവാദപത്രം മുൻജാട്ടിരി ഗ്രാമപഞ്ചായത്ത് മാത്രമേ വന്നു (പ്രവർത്തനം നടത്താൻ പാടുമെന്ന്).</p> <p>2. അനുവാദ പത്രങ്ങളുടെ കാബാബധി തീയതി മുൻജാട്ടിരി ഗ്രാമപഞ്ചായത്ത് മാത്രം 5 വർഷ കാബാബധി ഉണ്ടായിരിക്കും.</p> <p>3. അനുവാദ പത്രങ്ങളുടെ കാബാബധി തീയതി മുൻജാട്ടിരി ഗ്രാമപഞ്ചായത്ത് മാത്രം 5 വർഷ കാബാബധി ഉണ്ടായിരിക്കും.</p>		



Secretary in Charge  
Urangattiri Gramapanchayat Office  
Urangattiri P.O, Malappuram-673639  
ഉണ്ടായിരിക്കുന്നതാണ് 255/29

## **ANNEXURE 6**

# **Environmental Monitoring Results**

# Standards

## TEST REPORT

Test Report No.: 231222/R043

Date: 27-12-2023

Page 1 of 2

### CUSTOMER DETAILS

Customer Name & Address	<b>Mr.Mithun</b> Managing Director M/s Vezhakood Granites Ernad,Kozhikode District
Customer Reference	Test Request Date: 21-12-2023

### SAMPLE DETAILS

Product Category	Water	Sample Code	231222/S043
Sample Name	Ground Water	Sample Received on	22-12-2023
Sample Description by Customer	Open Well Water	Temperature @ Receipt	27°C
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	23-12-2023
Sample Quantity& Packing	2 L in a Plastic Bottle	Test Completed on	26-12-2023
Information Provided by Customer	---	Sampled by	Not Drawn by Laboratory

### SAMPLING SITE DETAILS

Survey No.	161/2,161/3,161/4,145/1		
Village	Urangattiri	Taluk	Ernad
District	Kozhikode	State	Kerala

### TEST RESULTS- CHEMICAL DISCIPLINE

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012
1	Colour	IS 3025 (Part 4): 2021	Hazen	1	5 (Max)
2	Odour	IS 3025 (Part 5): 2018	---	Agreeable	Agreeable
3	Turbidity	IS 3025 (Part 10): 2023	NTU	0.2	1.0 (Max)
4	pH	IS 3025 (Part 11): 2022	---	7.01	6.50–8.50
5	Conductivity	IS 3025 (Part 14): 2013	µS/cm	113	---
6	Total Dissolved Solids	IS 3025 (Part 16): 2023	mg/L	73.1	500 (Max)
7	Total Hardness as CaCO <sub>3</sub>	IS 3025(Part 21): 2009	mg/L	36.0	200 (Max)
8	Calcium as Ca	IS 3025(Part 40): 1991	mg/L	11.2	75 (Max)
9	Magnesium as Mg	IS 3025 (Part 46): 2023	mg/L	1.95	30 (Max)
10	Chloride as Cl	IS 3025(Part 32): 1988	mg/L	14.3	250 (Max)

Nesny A.K.  
Chemist

Checked by



Remya B.  
TM-Biological

Authorized Signatory

Laiju P.N.  
Laboratory Head

Authorized Signatory

The results are related only to the samples submitted for analysis and this test report shall not be reproduced except in full, without the written approval of the laboratory.

### Standards Environmental & Analytical Laboratories

Approval: "A" Grade Laboratory approved by Kerala State Pollution Control Board.

'Standards' Bldg. No: 338/A,B,C,D,E (Behind BPCL Petrol Pump), Edayar, Muppathadam P.O., Ernakulam Dist.- 683 110

Tel. 0484-2546660, 93872 72402, 90743 41443, Web: www.sealabs.in, E-mail: sealab@gmail.com

# Standards

## TEST REPORT

Test Report No.: 231222/R043

Date: 27-12-2023

Page 2 of 2

### TEST RESULTS- CHEMICAL DISCIPLINE

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012
11	Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23): 2023	mg/L	17.9	200 (Max)
12	Iron as Fe	IS 3025(Part 53): 2003	mg/L	0.20	1 (Max)
13	Sulphate as SO <sub>4</sub>	IS 3025 (Part 24/Sec 1): 2022	mg/L	2.01	200 (Max)

### TEST RESULTS - BIOLOGICAL DISCIPLINE

Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500 : 2012
1	Total Coliform Bacteria	IS 15185 : 2016	----	Absent/100 ml	Absent/100 ml
2	E coli	IS 15185 : 2016	----	Absent/100 ml	Absent/100 ml

Remarks:

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

Nesny A.K.  
Chemist

Checked by

Remya B.  
TM-Biological  
Authorized SignatoryLaiju P.N.  
Laboratory Head  
Authorized Signatory

The results are related only to the samples submitted for analysis and this test report shall not be reproduced except in full, without the written approval of the laboratory.

Standards Environmental &amp; Analytical Laboratories

Approval: "A" Grade Laboratory approved by Kerala State Pollution Control Board.

'Standards' Bldg. No: 338/A,B,C,D,E (Behind BPCL Petrol Pump), Edayar, Muppathadam P.O., Ernakulam Dist.- 683 110

Tel. 0484-2546660, 93872 72402, 90743 41443, Web: www.sealabs.in, E-mail: seaalab@gmail.com

# Standards

## TEST REPORT

Test Report No.: 231222/R042

Date: 27-12-2023

Page 1 of 1

### CUSTOMER DETAILS

Customer Name & Address	<b>Mr.Mithun</b> Managing Director M/s Vezhakood Granites Ernad,Kozhikode District
Customer Reference	Test Request date: 21-12-2023

### SAMPLE DETAILS

Product Category	Atmospheric Pollution	Sample Code	231222/S042
Sample Name	Ambient Air	Sample Received on	22-12-2023
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	23-12-2023
Sampled by	Lab Authorized Sampler	Test Completed on	26-12-2023

### DETAILS OF SAMPLING

Sampling Location	Project Site	Date of Sampling	21-12-2023
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	69 %

### SAMPLING SITE DETAILS

Survey No.	161/2,161/3,161/4,145/1		
Village	Urangattiri	Taluk	Ernad
District	Kozhikode	State	Kerala

### TEST RESULTS-CHEMICAL DISCIPLINE

SL NO	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARD
1	Particulate matter ,PM <sub>10</sub>	IS 5182 (Part 23): 2006	µg/m <sup>3</sup>	40.5	100 (Max)
2	Particulate matter, PM <sub>2.5</sub>	IS 5182 (Part 24): 2019	µg/m <sup>3</sup>	17.6	60 (Max)
3	Sulphur dioxide as SO <sub>2</sub>	IS 5182 (Part 2): 2001	µg/m <sup>3</sup>	<4.00	80 (Max)
4	Oxides of Nitrogen as NO <sub>2</sub>	IS 5182 (Part 6): 2006	µg/m <sup>3</sup>	<4.00	80 (Max)

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



Nesny A.K.  
Chemist

Checked by




Laiju P.N.  
Laboratory Head  
Authorized Signatory

The results are related only to the samples submitted for analysis and this test report shall not be reproduced except in full, without the written approval of the laboratory.

**Standards Environmental & Analytical Laboratories**

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# Standards

## TEST REPORT

Test Report No.: 231222/R043

Date: 27-12-2023

Page 1 of 1

### CUSTOMER DETAILS

Customer Name & Address	Mr.Mithun Managing Director M/s Vezhakood Granites Ernad,Kozhikode District
Customer Reference	Test Request date: 21-12-2023

### DETAILS OF MONITORING

Product Category	Atmospheric Pollution	Sample Code	231222/S043
Sample Name	Ambient Noise	Monitoring Commenced on	21-12-2023
Test Method	IS 9989:1981	Monitoring Completed on	22-12-2023
Monitoring Location	Project Site	Monitored by	Lab Authorized Sampler

### SAMPLING SITE DETAILS

Survey No.	161/2,161/3,161/4,145/1		
Village	Urangattiri	Taluk	Ernad
District	Kozhikode	State	Kerala

### MONITORING RESULTS - Leq

TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	38.2	14:00	51.2	22:00	37.0
07:00	41.0	15:00	51.6	23:00	36.0
08:00	45.3	16:00	52.8	24:00	38.6
09:00	48.9	17:00	53.2	01:00	39.3
10:00	51.2	18:00	47.7	02:00	39.0
11:00	54.4	19:00	44.1	03:00	39.7
12:00	51.6	20:00	40.2	04:00	38.6
13:00	50.8	21:00	39.7	05:00	40.4

Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time	dB(A)	49.7
2	Ambient Sound Level (Leq) Night Time	dB(A)	39.0

Remarks:

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

Nesny A.K.  
Chemist

Checked by



Laiju P.N.  
Laboratory Head

Authorized Signatory

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**Standards Environmental & Analytical Laboratories**

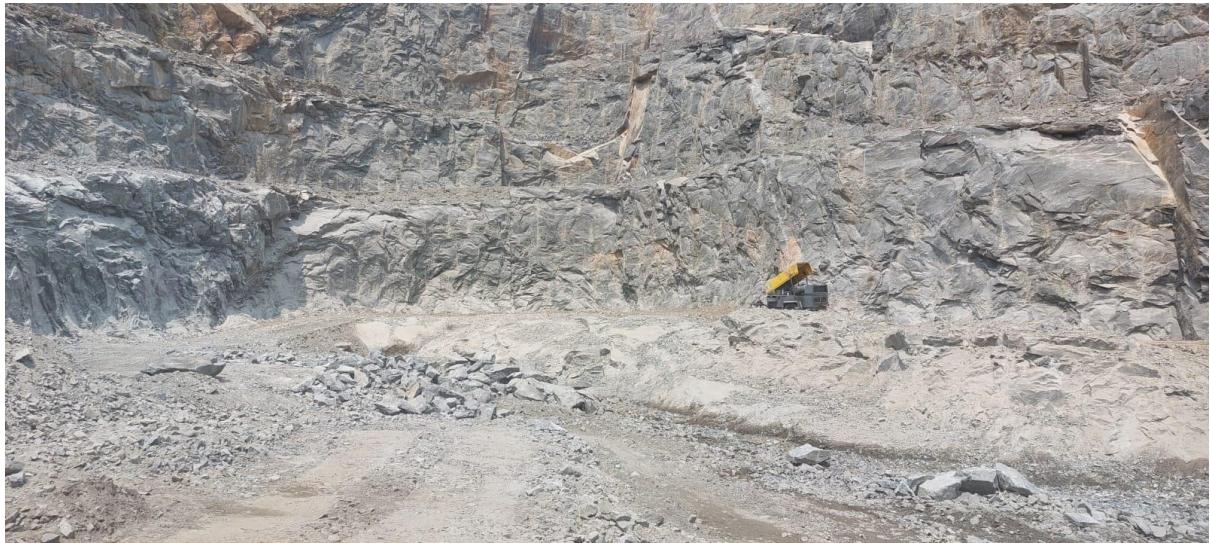
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## **ANNEXURE 7**

### **Site Photos**

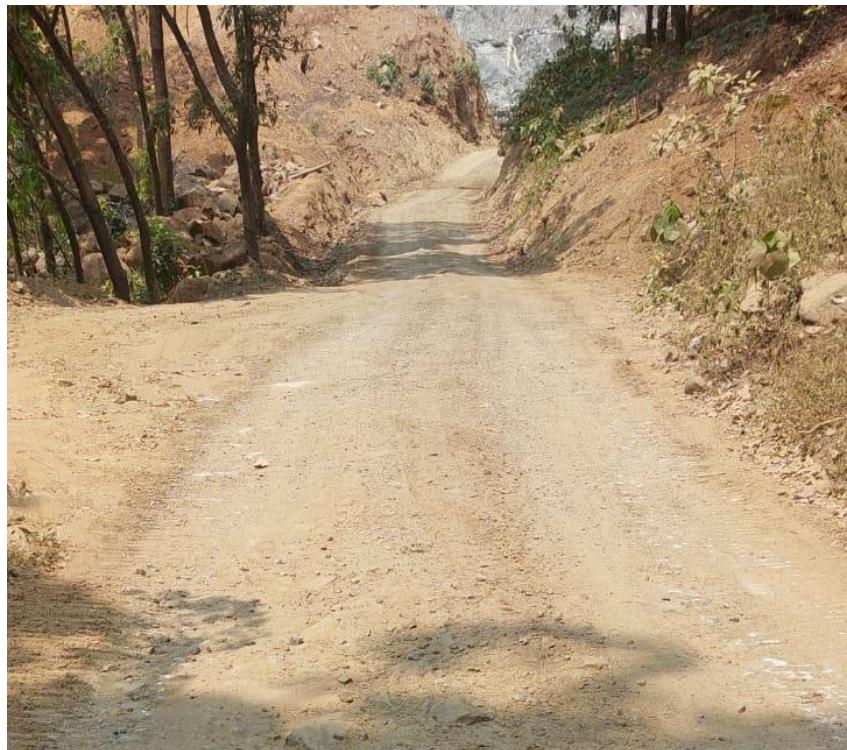




Mine Benches



Drainage





Quarry approach road



Plantation



























Sign and warning Boards