

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

**File No. 105/DEIAA/KL/MIN/14714/2018 Dated:16/08/2018**

**GRANITE BUILDING STONE QUARRY  
OF MR. MANOJ KUMAR.K**

**Situated At**

Re-survey no 68, 71/1, 71/2  
Mudakkara Desom, Kinaloor Village,  
Thamaraseery Taluk, Kozhikode

**October 2022- March 2023**

**Submitted on**

**June 2022**

**Prepared By**

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**Sri. Manoj Kumar.K**

Morikkara (P.O) N.V Road (via),  
Kakkodi, Kozhikode District, Kerala – 673 611.  
Ph: +91 9447065159

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

Respected Sir,

**Sub:** Half Yearly Compliance Report of Granite Stone Mine Project-October 2022-  
March 2023

**Ref:**File No. 105/DEIAA/KL/MIN/14714/2018 Dated:16/08/2018

With reference to the above we are submitting Half Yearly Compliance report for the EC order, mentioned above. Also enclosed here, copy of all Licenses from Statutory Bodies and Compliance Monitoring Report.

Place: Kozhikode

Date:2-06-2023

Sri. Manoj Kumar.K

(Authorised Signatory)

**Copy To,**

**Member secretary / Chairman**

**SEIAA Kerala**

**KSRTC Complex, Thampanoor**

**Thiruvananthapuram, Kerala**

## **INDEX**

<b>Sl.No</b>	<b>Particulars</b>
1	Introduction
2	Specific Conditions
3	General Conditions
4	Annexures

## **LIST OF ANNEXURES**

<b>Annexure No</b>	<b>Specifications</b>
1	Environmental Clearance
2	Consent from KSPCB
3	Explosive License
4	Panchayat License
5	Quarry Permit
7	Environmental Monitoring Results
8	Site Photos

## **1.INTRODUCTION**

Granite Building Stone Quarry of Mr. Manoj Kumar.K at Re-survey no 68, 71/1, 71/2 Mudakkara Desom, Kinaloor Village, Thamaraseery Taluk, Kozhikode District was obtained with the Environmental Clearance (File No. 105/DEIAA/KL/MIN/14714/2018 Dated:16/08/2018) by State Environmental Impact Assessment Authority on 16/08/2018. As part of general condition No.37 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 conditions of Environmental Clearance for the period of October 2022 – March 2023

**COMPLIANCE TO THE CONDITION STIPULATED IN THE ENVIRONMENTAL CLEARANCE 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	Should be fenced all around	We fenced all around the proposed area with separating buffer zone with 7.5 meter. And installed warning sign boards for safety measurements.
2	The limited patch of natural vegetation seen adjacent to the proposed lease area should be preserved as such	We maintained and preserved all limited patch of natural vegetation regular intervals which seen adjacent to the proposed lease area.
3	The entire quarry should be provided with catch water drain. The storm water from the upper slopes to be channelized into the drain and clarified before it is let out	We maintained catch water drain and ensured the storm water from the upper slopes to be channelized into the drain and clarified it is let out
4	A RWH structure should be created for the storage of rain water.	We provided RWH structure created for the storage of rain water near to proposed lease boundary

**3. GENERAL CONDITIONS**

Eventhough General Conditions not stipulated in the Environmental Clearance, refer herewith generally

**Table 3.General Conditions**

<b>Sl. No</b>	<b>General Conditions</b>	<b>Compliance Status</b>
1	Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR /KPBR,unless otherwise specified.	Provided rain water harvesting pond in the project area to collect rain water and utilize in the project area itself
2	Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.	To monitor all conditions stipulated in the Environment Clearance and environment Management Plan, the project proponent has constituted an Environment Monitoring Cell. The environmental management cell regularly report to the head of the organization.
3	Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, including of approach road and internal roads.	Already site have a green belt, planted 150 no's of trees at the boundary (Safe Buffer zone) This shall be maintained well. Trees like Mango, Anjili, Bamboo, Passion Fruits were planted
4	Maximum possible Solar Energy generation and utilization shall be ensured as an essential part of the project	As part of energy conservation, the project proponent has installed solar street light in the project site to generate and utilize maximum renewable energy. About 4 Solar Street Lights were provided in the quarry site
5	Sprinklers shall be installed and used in the project site to contain dust emissions.	Sprinklers are available at the site and are using at the time of generating dust from the site and make wet the internal roads daily. About 10 no's of sprinklers were provided in the quarry site and water tanker vehicles along with sprinklers for the purpose of dust suppressions at internal roads
6	Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.	It is assured that Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.
7	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 dumpings and overburden and planted with indigenous plant species that are eco-friendly.	At the time of closure of the mine, it shall ensure that directions contained are scrupulously followed
8	Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented	As part of inclusive growth of the community, we carried out various activities under CSR and documents attached.

9	The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mining. All the boundary indicators (boards, stores, markings, etc) shall be protected at all times and shall be conspicuous.	The direction contained shall be scrupulously followed. To demarcate the lease area and to prevent falling of animals/ human being / dumping of garbage etc , the project proponent has installed barbed metal wire fencing around the lease area.
10	Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.	As per the stipulation of Explosive department, the project proponent has installed siren as warning alarm in the quarry site. Siren rang before the blasting time in order to give warning to the workers and public. The blasting timings are displayed in the prominent area by way of caution board.
11	Control measures on noise and vibration prescribed by KSPCB should be implemented.	<p>Limited the operation of quarry in specific time only as directed by the KSPCB and has been following the directions and complying them.</p> <p>The following control measures are undertaken to bring down the noise levels:-</p> <ul style="list-style-type: none"> <li>• Proper maintenance of machinery equipment's and improvement of design of machines.</li> <li>• Personal Protective Devices i.e earmuffs, helmet, and boots etc. are provided to workers.</li> <li>• The mining activity is only during day time</li> </ul> <p>Noise level at the quarry site should be checked periodically, monitored through a NABL accredited laboratory during the quarry in operation and the monitored results are attached</p>
12	Quarrying activities should be limited to day time as per KSPCB guidelines.	Limited the operation of quarry in specific time only as directed by the KSPCB and has been following the directions and complying them
13	Blasting should be done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency.	Blasting done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency. Obtained Explosive license and following the guideline stipulated.
14	A licensed person should supervise/control the blasting operations	We have appointed Mines Manager in the site to supervise/control exploitation of minor minerals including blasting at the project site.

15	Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.	To reduce dust emissions and for the trouble free transportation of materials, the project proponent has properly surfaced the access road to the quarry site. The project proponent is regularly maintaining the access road in good manner.
16	Overburden materials should be managed within the site and the old quarries, if any, should be reclaimed and restored.	Overburden stacked in pre-determined site specified for the purpose
17	Height of benches should not exceed 5m and width should not be less than 5m.	The quarrying activity in the project site is progressing by creating benches of 5m width and 5m height. The formation of benches is under the direction and supervision of competent person.
18	Mats to reduce fly rock blast to a maximum of 10PPV should be provided.	We are using blasting mat to reduce fly rocks during blasting.
19	Maximum depth of mining from general ground level at site shall not exceed 10m.	The maximum depth of mining is above general ground level.
20	No mining operations should be carried out at places having a slope greater than 45°	It is ensured that no mining is carried out at places having a slope greater than 45°, if any.
21	Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB.	Scrupulously follows the directions contained.
22	The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.	We provided adequate Personnel Protective Equipments (PPE) such as helmets, ear muffs, safety belts, gloves, etc. to ensure the safety of workers in working site
23	Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize Storm Water.	We are very conscious to prevent all quarry waste to enter in the public drainage or stream. The project proponent has constructed Garland drains with silt traps were suitably constructed all along the periphery of the pit area. Garland Drains collect the run-off from the lease area and divert into the desiltation tanks proposed within the complex. The surface runoff from the benches will run into desiltation tank through the garland channel and then passes through the check dam into the natural drainage. All measures were taken not to disturb the existing drainage pattern adjacent to the other property. Desiltation tank installed for silt removal. Cleaning of



		Desiltation tank were done periodically. Clear water is letting out.
24	The transportation of minerals should be done in covered trucks to contain dust emissions.	To avoid dust emission from the vehicle while transportation of materials the project proponent assure that the trucks are covered before leaving the site.
25	The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.	This will be considered at the time of mine closure
26	Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations.	Shall be disposed through the authorized recyclers
27	Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department.	Magazine keep at an isolated area located at more than 50 m from the mining area
28	A minimum buffer distance of 50m from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided	Maintain the said distance from the mining boundary to the nearest structure.
29	100m distance shall be insisted upon for grant of EC for mining of minor minerals upto 20 hectares from natural forests with natural species of trees, including wildlife sanctuaries. However, for leases less than 2 hectares, the 100m distance may be reduced to a maximum of 50m in respect of adjacent lands clarified as forest, if such areas are barren or rocky outcrops devoid of any natural vegetation (cf Minutes of video conference with chairpersons of the SEIAA held on 28.04.2017)	Forest area is not there in this locality
30	Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating activity.	Obtained consent from KSPCB Attached as Annexure 02
31	All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.	<ul style="list-style-type: none"> <li>• Quarrying lease</li> <li>• Consent from Kerala Pollution Control Board</li> <li>• Environment Clearance from SEIAA</li> <li>• NOC from Explosive Dept.</li> <li>• D&amp;O License from the LSGD</li> </ul>
	In the case of any change(s) in the scope of the project, the project would require a fresh	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

32	appraisal by this Authority.	project will seek for a new Environmental clearance in the case of any changes in the scope of the project.
33	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
34	The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Environment Impact Assessment Authority (SEIAA) office and may be seen on the website of the Authority at <a href="http://www.environmentalclearance.nic.in">www.environmentalclearance.nic.in</a> . The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.	The project was advertised in two widely circulated local newspapers in that region. Mangalam(02-11-2019) Deccan Chronicle(05-11-2019)
35	A copy of the clearance letter shall be sent by the proponent 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 put on the website of the company by the proponent.	Copy of EC has been forwarded to the secretary of Kaniyambetta Grama Panchayat and also EC displayed in the notice board of the mining site
37	The proponent shall submit half yearly reports 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. It shall be sent to the Regional office of MoEF, Govt. of India and also to the State Environment Impact Assessment Authority (SEIAA) Office	The compliance report is being submitted along with the results of monitored data to the State Environmental Impact assessment Authority, Kerala and the Regional Office of MoEF&CC, Bangalore both in hard copy as well as mail.
	The details of Environmental Clearance should be prominently displayed in a metallic board of 3ft X3ft with green background and yellow	A display board shows all the details about the

38	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.	project and EC provided at the entrance of the quarry site
39	The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed.	An assurance in the form of affidavit was submitted to SEIAA Kerala by the project proponent.
40	No change in mining technology and scope of working should be made without prior approval of the SEIAA, No further expansion or modification in the mine shall be carried out without prior approval of the SEIAA, as applicable.	The conditions of SEIAA are strictly followed
41	The project proponent shall ensure that no natural water course or water resources shall be obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall take.	We are very conscious to prevent all quarry waste to enter in the public drainage or stream. The project proponent has constructed Garland drains with silt traps were suitably constructed all along the periphery of the pit area. Garland Drains collect the run-off from the lease area and divert into the desiltation tanks proposed within the complex. The surface runoff from the benches will run into desiltation tank through the garland channel and then passes through the check dam into the natural drainage. All measures were taken not to disturb the existing drainage pattern adjacent to the other property. Desiltation tank installed for silt removal. Cleaning of Desiltation tank were done periodically. Clear water is letting out.
42	Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended places loading and unloading points & transfer point to reduce fugitive emissions.	We monitored the ambient air quality as per National Ambient Air Quality Standard (NAAQS). Monitored Lab Results are attached.
43	The Top soil, if any, shall temporarily to be stored at earmarked sites, only. For the topsoil shall be used for land reclamation and plantation. The over burden generated during the mining operations shall be stacked at earmarked dump site only. The maximum height of the dumps shall not exceed 8 m and width 20m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geotextiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled. Monitoring and management of	The temporarily stored topsoil used only for land reclamation and plantation. It is ensured that the dump site where over burdens are stored should be maintained at 45° of slope. To prevent the soil erosion, the top soil and overburden are stacked in designated place within the project site. Only topsoil will be used for plantation. Overburden will be used for landfill and to construct haulage roads in the mining area. The excess will be stored in a designated place as per the direction.

	rehabilitated areas should continue until the vegetation becomes self-sustaining.	
44	Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent runoff of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilizing for watering the mine area. Roads, green belt development etc. the drains shall be regularly desalted particularly after monsoon and maintained properly.	We are very conscious to prevent all quarry waste to enter in the public drainage or stream. The project proponent has constructed Garland drains with silt traps were suitably constructed all along the periphery of the pit area. Garland Drains collect the run-off from the lease area and divert into the desiltation tanks proposed within the complex. The surface runoff from the benches will runs into desiltation tank through the garland channel and then passes through the check dam into the natural drainage. All measures were taken not to disturb the existing drainage pattern adjacent to the other property. Desiltation tank installed for silt removal. Cleaning of Desiltation tank were done periodically. Clear water is letting out.
45	Effective safeguard measures such as regular watersprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM10 and PM2.5 such as haul road, Loading and unloading points and transfer points-it shall be ensured that the ambient air quality parameters conform to the norms prescribed by the central pollution control board in this regard.	Effective safeguard measures are adopted in critical areas that are prone to air pollution. The project proponent has placed water sprinklers in critical area to reduce the dust emission. Ambient Air Quality according to the norms of CPCB is followed in loading – unloading points and transfer points.
46	Fugitive dust emissions from all the sources should controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained	There is a regular control on dust emission sources. Water spraying arrangements are properly maintained
47	Measures should be taken for control of noise levels below 85 dBA in work environment.	We taken appropriate steps to reduce the sound by employing possible measures. Measurements of noise levels are taken in the work environment. Noise Monitoring Lab results are attached.
48	A separate environmental management cell with suitable qualified personal should be set-up under the control of a senior Executive, who will report directly to the head of the organization	To monitor all conditions stipulated in the Environment Clearance and environment Management Plan, the project proponent has constituted an Environment Monitoring Cell. The environmental management cell regularly report to the head of the organization.
49	The funds earmarked for environmental protection measures and CSR activate should not be diverted for other purpose. Year wise	As part of inclusive growth of the community, we carried out various activities under CSR and documents attached.

	expenditure should be reported to the state Environment Impact Assessment Authority (SEIAA) office.	
50	The Regional Office of MOEF&CC Located at Bangalore shall extend full cooperation to the officer (S) of the Regional Office by furnishing therequisite data /information /monitoring reports	We will extent all possible cooperation to the officers form regional office of MoEF & CC and can produce all data/information/reports when they are asking for.
51	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	There is no appeal against EC
52	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 the this clearance and attract action under the provisions of Environment protection Act,1986	Such a situation never come across. The Condition is noted for compliance
53	The SEIAA may revoke or suspend the order, for non-implementation of any of the specific or this implementation of any of the above conditions is not satisfactory .The SEIAA reserves the right to alter /modify the above conditions or stipulate any further conditions in the interest of environment protection.	We are willing to implement the conditions stipulated in the Environment Clearance order. The project can execute all possible measures in the project site for the conservation of environment. The conditions of SEIAA are strictly followed
54	The above conditions shall prevail not withstanding anything to the contrary in consistent ,or simplified,contained in any other permit, license on consent given by other authority for the same project .	We will give priority to the conditions stipulated in the Environment clearance Order for execution.
55	This order is valid for a period of 5 years or the expiry date of mine lease period issued by the Government of Kerala whichever is earlier.	It is noted that this Environmental clearance order is valid for a period of 5 years or the expiry date of mine lease period issued by the Govt. of Kerala, whichever is earlier.
56	The Environmental Clearance will be subject to thefinal order of the courts of the in any pending litigation related to the land or project, in any court of law.	There is no court cases related to the project
57	The mining operation shall be restricted to above ground water table and it should not intersect ground water table.	The mining operation is alone aboveground water table
58	All vehicles used for transportation and within the mines shall have PUC certificate from authorized pollution talking Centre .washing of all vehicles shall be inside the lease area	Vehicles used within mines have PUC certificate. As part of reduce air pollution,the project proponent is monitoring the pollution level of all vehicles playing in the project site. This monitoring conductsonly in authorized pollution testing center.

59	Project proponent should obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and groundwater for the project.	Scrupulously follows the directions contained
60	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.	The report of water quality is given to the SEIAA in every six months
61	Occupational health surveillance program of the workers should be under taken periodically to observe any contractions due to exposure to dust and corrective measures, if needed.	A healthy surveillance program of the workers is controlled periodically

#### 4. ENVIRONMENTAL MANAGEMENT CELL

**Table 4. Environmental Management Cell**

Sl No	Name	Designation	
1	Mr. Manoj Kumar k	Head of the cell(Proprietor)	Frame policies monitoring the activities
2	Rajan	Environmental Manager-Unit manager	Implement Activities and Procedures
3	Dipeesh	Supervisor	Co-ordinate environmental Activities and monitoring of compliances
4	M/s Prime Technology Services	Environmental Consultant	Provide technical guidance for sound environmental friendly business
5	M/S Standard <sup>S</sup>	Environmental Monitoring Agency	Monitor Ambient Air, Noise, water periodically

**ANNEXURE 1**  
**ENVIRONMENTAL CLEARANCE**



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Validity expires on 15.08.2023



**Proceedings of the District Environment Impact Assessment Authority Kozhikode**

**Present :** Sri U.V. Jose. IAS, District collector & Chairman DEIAA,  
Smt Vigneshwari. V.IAS, Sub Collector and Member Secretary DEIAA,  
Sri Sunil Kumar DFO & Member

**Sub :** DEIAA-Environmental clearance for the quarry project in re survey No. 68, 71/1 and 71/2 of Mundakkara Desom, Kinaloor Village, Thamarassery Taluk, Kozhikode District, Kerala by Sri K Manoj Kumar, Kizhakkedath House, Moorikkara P.O., Kozhikode, Kerala - E C Granted- Orders issued.

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**District Environment Impact Assessment Authority, Kozhikode**

**No. 105/DEIAA /KL/MIN/14714/2018**

**Dated, Kozhikode: 16.08.2018.**

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- Ref :**
1. Application dated 23/04/2018 Sri. K Manoj Kumar, Kizhakkedath House, Moorikkara P.O., Kozhikode, Kerala
  2. Minutes of the 15<sup>th</sup> meeting of DEAC held on 27/04/2018
  3. Minutes of the 16<sup>th</sup> meeting of DEAC held on 22/05/2018
  4. Minutes of the 9<sup>th</sup> meeting of DEIAA held on 20/07/2018

**ENVIRONMENTAL CLEARANCE NO. 105/2018**

Sri. K Manoj Kumar, Kizhakkedath House, Moorikkara P.O., Kozhikode, Kerala, Kerala, vide his application received 23/04/2018, has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in re survey No. 68, 71/1 and 71/2 of Mundakkara Desom, Kinaloor Village, Thamarassery Taluk, Kozhikode District, Kerala for an area of 1.0261 hectares. The project comes under Category B2, Activity 1(1), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA-11(M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dated 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 5 hectares.

The proposed project site falls within Latitude 11°27'13.43" N to 11°27'10.37" N and Longitude 75°51'25.61"E to 75°51'25.74"E. The land use classification as per revenue records is own land. The lease area consists of 1.0261 hectares. The current proposal is for the new building stone quarry project. The proposed project is of 12,640 MTA of building stone. The other details are as follows:

<b>I. Project details</b>		
1.	File No.	DEIAA /KL/MIN/14714/2018
2.	Name /Title of the project	Building Stone Quarry of Mr. Manoj Kumar .K
3.	Name and address of project proponent.	Mr. Manoj Kumar.K Kizhakkedath, N.V Road, Morikkara (P.O),Kakkodi, Kozhikode-673611
4.	Owners of the land	Own Land
5.	Survey No. District/Taluk/ and Village etc.	Re.survey No: 68,71/1,71/2, Mundakkara Desom Kinaloor Village, Thamarassery Taluk, Kozhikode District, Kerala State.
6.	Details of period of lease or permit with number including the beginning and expiry date of lease/permit period <b>(Copy to be attached)</b>	Quarry Lease
7.	Present Status of the project a. whether the quarry is working at present or not ? b. If stopped working since when?	Not Applicable
8.	Date of submission of Application	23/04/2018
9.	Brief description of the project.	The proposed building stone quarry project is situated at Re-sy. No. 68, 71/1, 71/2 in Kinaloor Village, Thamarassery Taluk, Kozhikode District, Kerala State. The Proposed lease and present land use is quarrying activities. It is a mining project for excavation of building stone. The targeted annual production of stone will be 12640MT.
10.	Details of Authorized Signatory and address for correspondence	Mr. Manoj Kumar.K Kizhakkedath, N.V Road, Morikkara (P.O),Kakkodi, Kozhikode-673611
<b>II. Land Details</b>		
11.	a) Extent of area in hectares	1.0261 Ha
12.	b) Is the property forest land/Govt. land/own land/patta land	Private owned Land
13.	c) Quantity of top soil/over burden produced and managed	A total quantity of 6719.25 tonne of top soil in the existing quarrying area. About 6319 cu.m of overburden will be generated throughout the mine life.

14.	d) Latitude and Longitude	Latitude (N)	11°27'13.43" N to 11°27'10.37"
		Longitude (E)	75°51'25.61"E to 75°51'25.74"
15.	e) Topography of land and elevation	The topography of the surrounding permit area is an elevated terrain with quarry land covered with native trees, shrubs, herbs, grass, climbers, bushes etc. The highest elevation of the permit area is 155m MSL and lowest is 100m MSL. As the proposed area is hill rock, the drainage of the permit area is towards west direction.	
16.	f) Slope analysis	Considering the stability of rocks the final slope or say Ultimate pit slope is proposed 45° from horizontal.	
17.	g) Will there be any significant land disturbance resulting in soil erosion, subsidence & natural drainage.	No	
18.	h) Access road to the site width and condition	The public road leading to the quarry has a width of about 8m.	
19.	i) Will there be any adverse impact on the aesthetics of the proposal site	No	
<b>III. Mining details</b>			
20.	a) Minimum and Maximum height of excavation.	100m MSL & 155m MSL	
21.	b) Life of mine proposed.	10 years	
22.	c) Underground mining if any proposed	No	
23.	d) Method of Mining	open cast semi-mechanized method of mining	
24.	e) Distance from the adjacent quarry	Nil	
25.	f) Cluster condition if any	No	
26.	g) Has "No cluster certificate" submitted?	No	
27.	h) Distance from nearby habitation	105m	
28.	i) Distance from nearby forest, if applicable	Nil	
29.	j) Distance from protected area, Wildlife Sanctuary, National Park etc.	Nil	
30.	k) Distance from nearby streams/rivers/National Highway and Roads	River - 10km, NH -26 km ,SH -2km	
31.	l) Is ESA applicable? If so distance from ESA limit	No	

32.	m) Has approved mining plan, prepared by RQP submitted?	Yes																		
33.	n) Capacity of production	12,640 MT																		
34.	o) Details of mining process	<p>The proposed mining operations will be carried out by open cast semi-mechanized method. The height and width the bench will be maintained at 5 m respectively. The mining will be done from top to bottom by slicing of 2.5 m thick. Considering the stability of rocks .</p> <p>The final slope or say ultimate pit slope is proposed 45° from horizontal. Haul road will be developed up to point of loading. Transportation of the mineral from pit-mouth to destination will be by tippers/trucks (10T capacity).</p>																		
<b>IV. Details of Project cost</b>																				
35.	a) Land cost	As fixed by the Revenue Department																		
36.	b) Plant and Machinery	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Machine Type</th> <th>Required No. of M/c</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Excavator</td> <td>1(rent)</td> </tr> <tr> <td>2.</td> <td>Rock breaker</td> <td>1(rent)</td> </tr> <tr> <td>3.</td> <td>Tippers/Trucks</td> <td>2</td> </tr> <tr> <td>4.</td> <td>Compressor</td> <td>1(rent)</td> </tr> <tr> <td>5.</td> <td>Excavator</td> <td>1(rent)</td> </tr> </tbody> </table>	S. No.	Machine Type	Required No. of M/c	1.	Excavator	1(rent)	2.	Rock breaker	1(rent)	3.	Tippers/Trucks	2	4.	Compressor	1(rent)	5.	Excavator	1(rent)
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3.	Tippers/Trucks	2																		
4.	Compressor	1(rent)																		
5.	Excavator	1(rent)																		
37.	c) Total Cost	35 lakhs																		
38.	V. Financial Statement including funding source and details of insurance etc.	Own fund																		
39.	Management Plan	<table border="1"> <tr> <td>Air Pollution</td> <td>The PM 10 and PM 2.5 will be controlled by Dust Suppression mechanism as specified by KSPCB</td> </tr> <tr> <td>Water Pollution</td> <td>Water quality meeting requirements after the treatment of water (filtration, disinfection &amp; sedimentation).</td> </tr> <tr> <td>Noise</td> <td>Will be under control by KSPCB standards</td> </tr> <tr> <td>Solid Waste Management</td> <td>Will be under control by KSPCB standards</td> </tr> <tr> <td>Eco-restoration</td> <td>0.3372 Ha area embarked for safety barrier shall be used for green belt development by planting 550 local species</td> </tr> </table>	Air Pollution	The PM 10 and PM 2.5 will be controlled by Dust Suppression mechanism as specified by KSPCB	Water Pollution	Water quality meeting requirements after the treatment of water (filtration, disinfection & sedimentation).	Noise	Will be under control by KSPCB standards	Solid Waste Management	Will be under control by KSPCB standards	Eco-restoration	0.3372 Ha area embarked for safety barrier shall be used for green belt development by planting 550 local species								
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Eco-restoration	0.3372 Ha area embarked for safety barrier shall be used for green belt development by planting 550 local species																			

40.	VI. Whether Environment Management Plan or Eco restoration Plan satisfactory?	Yes
41.	VII. Does it suggest mitigation measures for each activity	Yes
42.	VIII. If Pre-Feasibility Report (PFR) satisfactory	Yes
43.	IX. Does it need public hearing	No
44.	X. Details of litigation and Court verdict if any	Not Applicable
45.	XI. Details of public complaint, if any	Not Applicable
46.	XII. Details of statutory sanction required	Not Applicable
47.	XIII. If CRZ recommendation applicable?	Not Applicable

**PART B**

**Environment Impact Assessment and Mitigation Measures**

**Impact on water**

48.	a) Details of water requirement per day in KLD	The total water requirement is about 6 KLD in which 1 KLD is for domestic uses, 4 KLD for dust suppression and 1 KLD for plantation purposes.
49.	b) Water source/sources.	The water required will be sourced from an open well water and Rain Water..
50.	c) Expected water use per day in KLD.	6 KLD
51.	d) Details of water requirements met from water harvesting.	Sufficient quantity will be maintained from RWH
52.	e) What are the impacts of the proposal on the ground water?	No impacts noticed
53.	f) How much of the water requirement can be met from the recycling of treated waste water? (Facilities for liquid waste treatment)	Proper recycling mechanism will be introduced for utilizing the treated waste water.
54.	g) What is the incremental pollution load from waste water generated from the proposed activities?	Not Applicable in the site
55.	h) How is the storm water from within the site managed?	With sedimentation tanks per the standard norms

<b>Impact on Biodiversity and Eco restoration Programmes</b>		
56.	a) Will the project involve extensive clearing or modification of vegetation (Provide details)	Not applicable
57.	b) What are the measures proposed to minimize the likely impact on vegetation (details of proposal for tree plantation/ landscaping)	Planting of indigenous trees will be conducted as mitigative measures. the details are specified in the Mining closure plan
58.	c) Is there any displacement of fauna – both terrestrial and aquatic? – If so what are the mitigation measures? d) Presence of any endangered species or red listed category (in detail)	Not Applicable
<b>Impact on Air Environment</b>		
59.	a) What are the mitigation measures on generation of dust, smoke and air quality	Appropriate dust suppression mechanism including sprinklers will be introduced for the mitigative measure.
60.	b) Details of internal traffic management of the site.	Traffic will be managed without generating air pollution.
61.	c) Details of noise from traffic, machines and vibrator and mitigation measures	Noise will not be the problem as the mining has been proposed by semi- mechanized open cast method.
62.	d) Impact of DG sets and other equipments on noise and vibration and ambient air quality around the project site and mitigation measures	This will be as specified by the CPCB standards
63.	e) Air quality monitoring in detail	Particulate Matter (PM <sup>10</sup> )- 43.6 µg/M <sup>3</sup> Particulate Matter (PM <sup>2.5</sup> )- 19.7 µg/M <sup>3</sup> Sulphur dioxide (SO <sub>2</sub> ) - <2.00µg/M <sup>3</sup> Nitrogen dioxide (NO <sub>2</sub> ) - <2.00µg/M <sup>3</sup>
<b>Energy Conservation</b>		
64.	a) Details of power requirement and source of supply.	No power is required for quarry operations.
65.	b) Details of renewable energy (non – conventional) used.	Not Applicable
<b>Risk Management</b>		
66.	a) Are there sufficient measures proposed for risk hazards in case of emergency such as accident at the site?	No disaster is expected in this small scale of quarrying; however as an emergency the assistance of the hospital, police station and fire brigade will be arranged I war-foot level

67.	<p>b) Are proposals for fencing around the quarry satisfactory?</p> <p>c) Storage of explosives/hazardous substance in detail</p> <p>d) Facility for solid waste management</p>	Yes, Explosives used is ANFO which will be kept in magazines under the stipulated conditions and standards depicted by the DGMS.
<b>Socio Economic Impacts</b>		
68.	a) Will the project cause adverse effects on local communities disturbance to sacred sites or other cultural values. What are the safe guards proposed?	No
69.	b) Will the proposal result in any changes to the demographic structure of local population. If so, provide details.	No
70.	c) Are the CSR proposals satisfactory. Give details	Yes , Total CSR proposal is for Rs. 1,70,000 . Recurring- Rs, 1,20,000 and Non-Recurring- Rs.50,000.
71.	d) What are the projects benefits in terms of employment potential?	The main occupation of the people is farming. There are no major industries in the area. The quarrying operation in such remote places would provide direct & indirect employment to local people. Hence quarrying operation will help in improving socio-economic status of the area.
<b>PART C</b>		
72.	Details of NABET approved EIA Consultant engaged-Their name, address and accreditation details	NAZAR AHAMED K.V DMG/KERALA/RQP/7/2016 N Square Mining and Environmental Solutions. Xaitoon Plaza, Edappal Malappuram-679576.
<b>Summary and Conclusion</b>		
73.	a) Overall justification for implementation of the project.	The project infrastructures can be utilized for the benefit of the local people of the area. The revenue of the State Govt. will be definitely increasing due to the proposed activity by means of CRP as well as the processing fee for appropriate statutory clearances involved in the procedures. The entire project area is devoid of any endangered flora and fauna as specified in the IUCN records and the area is totally far from any other protected areas under the Wildlife Protection Act as well as the Forest Act. It is proposed to reclaim the land and develop green cover for eco-restoration with native species to a maximum extent as far as possible.

74.	b) Explanation of how adverse impacts have been mitigated.	<ul style="list-style-type: none"> <li>a. The pit shall be fenced.</li> <li>b. Proper and adequate security at the entrance to the mine to prevent entry of unauthorized person with proper gates under lock.</li> <li>c. All the above will be examined by manager once in a week to ensure that they are in order.</li> </ul>
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2. The proposal was considered in the 15<sup>th</sup> meeting of DEAC held on 27.04.2018. The minutes of the said meeting are as follows; Further to the intimation of DEAC, the proponent along with the RQP was present in the meeting and RQP made a power point presentation of the salient features of the project. The committee appraised the proposal based on the mining plan, pre-feasibility report and all other documents submitted along with the Form IM application and decided to defer the item for site visit.

Field visit to the quarry project site of Sri K Manoj Kumar, Kizhakkedath House, Moorikkara P.O., Kozhikode, Kerala in re survey No. 68, 71/1 and 71/2 of Mundakkara Desom, Kinaloor Village, Thamarassery Taluk, Kozhikode District, Kerala was carried out on 11.05.18 by Sri. T. Mohanan, District Geologist, District Officer PCB, Kozhikode and Sri, Sathyan Meppayur, Nominated Member & Asst. Conservator of Forests, Kozhikode. The proponent was present at the site at the time of site visit.

The project is located at about 700m NE of Vattoli Bazar. This quarrying permit area form part of a hillock exposing hard rock. The approach road is tarred. Boundary pillars of this plot are erected and numbered. In the area proposed for quarry is an elevated ridge with overall slope to NW. This is an uncultivated land that exposes hard rock with few patches of OB and top soil of variable thickness.

*The quarry has been recommended for EC after considering the following points:-*

1. *The entire area proposed for quarry should be fenced all around.*
  2. *The limited top soil and OB need proper storage area on the lower part and provided with protective walls.*
  3. *The approach road needs widening and surfacing*
  4. *The limited patch of natural vegetation seen adjacent to the proposed lease area should be preserved as such.*
  5. *The entire quarry should be provided with catch water drain all around. The storm water from the upper slopes to be channelized into the drain and clarified before it is let out.*
  6. *The required quantity of water for the project shall be collected by rain water harvesting*
  7. *A RWH structure should be created for the storage of rain water.*
  8. *Details of CSR to be provided as promised in the DEAC meeting.*
3. The proposal along with field visit report was again placed in the 16<sup>th</sup> DEAC meeting held on 22<sup>nd</sup> June 2018. The Committee after examining the mining plan, prefeasibility report, field inspection report by subcommittee and all other documents submitted, decided to recommend for issuance of EC subject to general conditions along with the following specific conditions.

1. Should be fenced all around.



2. The limited patch of natural vegetation seen adjacent to the proposed lease area should be preserved as such.
3. The entire quarry should be provided with catch water drain. The storm water from the upper slopes to be channelized into the drain and clarified before it is let out.
4. A RWH structure should be created for the storage of rain water.
5. The proponent agreed to set apart Rs. 1, 20,000 /- (recurring) and Rs. 50,000 /- (non-recurring) for the welfare of the local community. The proponent also agreed to spend this amount in consultation with the local Panchayath.
6. The proposal was considered by the Authority in its 9<sup>th</sup> meeting held on 20.07.2018

The authority resolved to issue Environmental Clearance on condition that quarrying should be started only after fulfilling the pre mining specific conditions No.1 to 4

4. The 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 and relied on for grant of this clearance. The above undertakings and conditions and the undertakings subject to all the mining features, Environmental Management Plans as undertaken in the Mining Plan and EMP submitted to DEIAA will be deemed to be part of this proceedings as conditions as undertaken by the proponent as if incorporated herein.
  5. Validity of the Environmental Clearance will be five years from the date of this clearance, subject to inspection by DEIAA on annual basis and compliance of the conditions, subject to earlier review of E.C in case of violation or non-compliance of conditions or genuine complaints from the public.
  6. Compliance of the conditions herein will be monitored by the State Environment Impact Assessment Authority or its authorized offices and also by the regional office of the Ministry of Environment & Forests.  
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.
- i. Instances of violation if any shall be reported to the District Collector, Kozhikode to take Legal action under the environment (Protection) Act 1986.
  - ii. The given address for correspondence with the authorised signatory of the project is Sri. . K Manoj Kumar, Kizhakkedath House, Moorikkara P.O., Kozhikode

To

Sri. . K Manoj Kumar,  
Kizhakkedath House,  
Moorikkara P.O.,  
Kozhikode.

  
District Collector and Chairman (DEIAA)  
Kozhikode  
  
District Collector  
Kozhikode  
1/2



**DISTRICT ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KOZHIKODE,  
GENERAL CONDITIONS (for mining projects)**

1. Rain water harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified.
2. Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.
3. Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, including of approach road and internal roads.
4. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.
5. Sprinklers shall be installed and used in the project site to contain dust emissions.
6. Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.
7. At least 10 percent out of the total excavated pit area should be retained as water storage areas and the remaining area should be reclaimed with stacked dumping and overburden and planted with indigenous plant species that are eco-friendly, if no other specific condition on reclamation of pit is stipulated in the F.C
8. Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented
9. The lease area shall be fenced off with barbed wires to a minimum height of 4 ft around, before starting of mining. All the boundary indicators (boards, stores, markings, etc.) shall be protected at all times and shall be conspicuous.
10. Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.
11. Control measures on noise and vibration prescribed by KSPCB should be implemented.
12. Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.
13. Blasting should be done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency.
14. A licensed person should supervise/control the blasting operations.
15. Access roads to the quarry shall be tarred to contains dust emissions that may arise during transportation of materials.
16. Overburden materials should be managed within the site and used for reclamation of mine pit as per mine closure plan/specific conditions.
17. Height of benches should not exceed 6m and width should not be less than 5m if there is no mention in the mining plan/specific condition.
18. Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.
19. Maximum depth of mining from general ground level at site shall not exceed 10m.
20. No mining operations should be carried out at places having a slope greater than 45<sup>0</sup>
21. Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB.
22. The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.
23. Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.
24. The transportation of minerals should be done in covered trucks to contain dust emissions.

25. The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.
26. Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations.
27. Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department.
28. A minimum buffer distance of 100m from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided
29. 100 m buffer distance should be maintained from forest boundaries.
30. Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating mining activity.
31. All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.
32. 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 only the E.C is issued, the project would require a fresh appraisal by this Authority, for which the proponent shall apply and get the approval of this Authority.
33. 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.
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 project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the District Environment Impact Assessment Authority (DEIAA) office Kozhikode and may also be seen on the website of the Authority at [www.environmentclearance.nic.in](http://www.environmentclearance.nic.in) The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.
36. A copy of the clearance letter shall be sent by the proponent to concerned Gramapanchayat/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 put on the website of the company by the proponent.
37. The proponent shall submit half yearly reports 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 simultaneously be sent to the respective State Environment Impact Assessment Authority (SEIAA) office and also to the District Environment Impact Assessment Authority (DEIAA) office.

38. 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 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.
39. The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed.
40. No change in mining technology and scope of working should be made without prior approval of the DEIAA, No further expansion or modifications in the mine shall be carried out without prior approval of the DEIAA, as applicable.
41. The Project proponent shall ensure that no natural water course and/or water resources shall be 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.
42. 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. Water sprinkling should be increased at places loading and unloading points & transfer point to reduce fugitive emissions.
43. The top soil, if any, shall temporarily be stored at earmarked site(s) only for the topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site only. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.
44. 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 other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly de silted particularly after monsoon and maintained properly.
45. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM<sub>10</sub> and PM<sub>2.5</sub> such as haul Road, loading and unloading points and transfer points, it shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
46. Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.
47. Measures should be taken for control of noise levels below 85 dBA in the work environment
48. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization
49. The funds earmarked for environmental protection measures and CSR activities should be kept in separate account and should not be diverted for other purposes. Year wise expenditure should be reported to the District Environment Impact Assessment Authority Kozhikode (DEIAA) office.
50. The Regional Office of SEIAA & CC located at Bangalore shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (S) of the Regional Office by furnishing the requisite data/information/monitoring reports.
51. 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.

52. 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
53. The SEIAA may revoke or suspend the order, for non-implementation
54. of any of the specific conditions or the implementation of any of the above conditions is not satisfactory. The DEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
55. 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.
56. This order is valid for a period of 5 years or the expiry date of quarrying lease period issued by the Government of Kerala, whichever is earlier.
57. The Environmental Clearance will be subject to the final order of the courts in any pending litigation related to the land or project, in any court of law.
58. The mining operation shall be restricted to above ground water table and it should not intersect ground water table.
59. All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution testing centre. Washing of all vehicles shall be inside the lease area.
60. 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
61. 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 DEIAA.
62. Occupational health surveillance programme of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
63. The environmental clearance liable to be cancelled if the said land is found in porambokku, surplus land, etc



Chairman, DEIAA Kozhikode

**District Collector  
Kozhikode**

2/2

Copy to

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4<sup>th</sup> Floor, E&F Wing, II Block, Koramangala, Bangalore-560034
2. The Additional Chief Secretary to government, Environment Department, Government of Kerala.
3. Director, Mining & Geology, Thiruvananthapuram-4
5. District Geologist, Mining & Geology, Kozhikode
6. Secretary, Panangad Grama Panchayath
7. S/F

**ANNEXURE 2**  
**KSPCB CONSENT**

**FILE NO : PCB/KKD/DO/9461/2020**

**Date of issue : 07/07/2020**



**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. :13239928**

**Dated:30-06-2020**

**TO**

**M/s MALAYILAKATTOTT GRANITES**

**KINALOOR VILLAGE THAMARASSERY TALUK VATTOLI BAZAR KOZHIKODE**

**Consent No. :PCB/KKD/DO/ICO/9461/R14KOZ241180/13239928/2020**

**Valid Upto :15/08/2023**

## 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>	15/08/2023
2	Name and Address of the establishment	MALAYLAKATTOTT GRANITES KINALOOR VILLAGE THAMARASSERY TALUK VATTOLI BAZAR KOZHIKODE 673612
3	Communication	Telephone :0-9447065159 Fax :- E-mail: getmanojclt@gmail.com
4	Occupier Details	SRI.MANOJKUMAR K KIZHAKKEDATH HOUSE MOORIKKARA POST KAKKODI KOZHIKODE
5	Local Body	PANANGAD PANCHAYATH
6	Survey Number	RS NO:68,71/1,71/2
7	Village	KINALOOR
8	Taluk	THAMARASSERY
9	District	KOZHIKODE
10	Capital Investment(Rs in Lakhs)	35 Rs in Lakhs
11	Scale	Small
12	Category	RED
13	Annual fee(Rs)	Rs -7700/-
	Total Fee remitted(Rs)	Rs -23100/-
14	<b>RAW MATERIAL</b>	<b>PRODUCTS</b>
	Quarrying in 1.0261Ha of land in Survey no. RS NO: RS NO:68,71/1,71/2, Kinaloor Village, Thamarassery Taluk And In Panangad Panchayath	Quarrying in 1.0261Ha of land in Survey no. RS NO: RS NO:68,71/1,71/2, Kinaloor Village, Thamarassery Taluk And In Panangad Panchayath
15	Total Power Required (HP)	nil

## 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: 5000 liters/day
- 2.3 Effluent generation: 4000liters/day
- 2.4 The characteristics of effluent after treatment shall confirm to the following tolerance limits:



Sl.NO.	Characteristics	Unit	Tolerance Limit	
			Sewage	Trade Effluent

2.5 Mode of disposal of treated effluent: Settling tank

### 3. CONDITIONS AS PER

#### The Air(Prevention and Control of Pollution)Act, 1981

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.

Stack No.	Sources of Emission	Emission Rate(Nm <sup>3</sup> /Hr)	Stack Height above		Control Equipment
			Ground Level	Roof Level	

3.2 Emission characteristics shall not exceed the following:

Sl.No.	Parameter	Limiting Standards (mg/Nm <sup>3</sup> )

### 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.

4.3.1 Activities for which Authorisation is granted

Collection		transport	
Reception		Storage	
Treatment		Reprocessing/Disposal	

4.3.2 Type, quantity and mode of storage/collection/disposal of hazardous wastes shall be as follows:

Sl.No.	Hazardous Waste	Schedule Category	Quantity Tonne/year

Mode of	
Storage	Disposal

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

## 5. SPECIFIC CONDITIONS

5.1. Condition no.2.4 of the consent referred 2nd above is modified to the extent that for renewal of the integrated consent application in the prescribed form shall be submitted to the Board before 30.06.2023 through the web portal of the Board (krocmms.nic.in) for Online Consent Management & Monitoring System. Late application will be accepted only with fine/late fee as applicable.

5.2 The quarry should not be operated between 6.00 p.m. and 6.00 a.m.

5.3 Noise measured 1 m outside the boundary of the premises shall not exceed the limit specified for the area under the Ambient Air Quality Standards in respect of noise.

5.4 The concentration of particulate matter PM 10 and PM 2.5 at the boundary of the premise shall not exceed 100 microgram/m<sup>3</sup> and 60 microgram/m<sup>3</sup> respectively.

5.5 Permanent fence made of wire mesh shall be provided and maintained along the boundary of the approved quarry area.

5.6 The applicant shall put up a 6 ft. x 4 ft. signboard near entrance to the quarry for displaying the name of the quarry and owner, production details and time of the day when blasting is permitted to be undertaken.

5.7 Location and extent of quarry shall be as per the approved site plan attached.

5.8 After completion of quarrying, the land may be reclaimed as per the mining plan approved by the Department of Mining and Geology.

5.9. Quarrying operations shall be started only after obtaining the all the statutory clearances required, which shall be valid throughout the period of operations.

5.10. This consent is issued based EC no 105/DEIAA/KL/MIN/14714/2018 dated 16.08.2018 valid up to 15.08.2023 for 1.0261 hectares and letter no. 811/2016-17/4355/M3/2015/DGM dated 10.03.2017 of Geologist, Mining and Geology Department

5.11. Quarrying operation shall be strictly restricted to the area as per the VO approved location sketch and shall be confining to the area which is having valid Environmental Clearance

DATE :07/07/2020

SIGNATURE & SEAL OF ISSUING AUTHORITY  
ENVIRONMENTAL ENGINEER  
DISTRICT OFFICE

SHABNA KUSHE SHEKHAR  
Digitally signed  
by SHABNA  
KUSHE SHEKHAR  
Date: 2020.07.09  
10:59:57 +05'30'



To

SRI.MANOJKUMAR K  
KIZHAKKEDATH HOUSE  
MOORIKKARA POST  
KAKKÓDI  
KOZHIKODE

- 1. This digitally signed document is legally valid as per the Information Technology Act 2000**
2. For verifying this document please go to [krocmms.nic.in](http://krocmms.nic.in) and search using date of issue/name of the unit/Application Number in "Consent Granted Applications" link in the home page of the Board's Online Consent Management and Monitoring System.

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



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  
A और D - विंग, ब्लॉक 1-8, दूसरा तल, शास्त्री भवन | A & D - Wing, Block 1-8, IInd Floor, Shastri Bhavan  
26 हड्डोउस रोड, नुंगम्बक्कम चेन्नै | 26 Haddous Road, Nungambakkam Chennai 600006  
फोन (Phone):- 2828 1023 | फैक्स (Fax) - 28284848

दिनांक (Date): 14/02/2023

संख्या (No.): E/SC/KL/22/1700(E75728)

सेवा में | To,

Sh. K.Manoj Kumar,  
Kizhakkedath House, Moorikkara P.O., Kakkodi, Kozhikode Distt., Town/Village - Kakkodi  
District-KOZHICODE, State-Kerala, Pincode - 673611

विषय: Survey No.R.Sy.No.71/2, ग्राम Kinalur (v), Koyilandy Taluk, जिला KOZHICODE, राज्य Kerala में मेसर्स Sh. K.Manoj Kumar द्वारा विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुज्ञप्ति सं E/SC/KL/22/1700(E75728) के संशोधन संदर्भ में।  
( विस्फोटक की मात्रा / मासिक खरीद सीमा में परिवर्तन आरेखण / सुविधाएं / परिसर में परिवर्तन )

Subject: Possession for Use of Explosives from magazine situated at Survey No.:R.Sy.No.71/2, Kinalur (v), Koyilandy Taluk, Dist. KOZHICODE, Kerala -Licence No.: E/SC/KL/22/1700(E75728) 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 79307 दिनांक 13/02/2023 का संदर्भ ग्रहण करें।  
Please refer to your letter no. 79307 dated 13/02/2023.

अनुज्ञप्ति संख्या E/SC/KL/22/1700(E75728) usage of Explosives at the Proposed Granite Building Stone Quarry granted to K.MANOJ KUMAR, (E.C No. 105/2018, dated 16.08.2018) Situated at Re. Survey No. 68, 71/1,2, Mundakkara Desom, Kinaloor Village, Thamarassery Taluk, Kozhikode District, Kerala, Issued by State Level Impact Assessment Authority, Kerala under the following conditions. 1.Opening of Mines should be intimated to DGMS and Director of Mines & Geology. 2.Blasting Operations should be conducted as per Mines Act & Rules. 3.Usage of Explosives to be as per Explosives Rules, 2008 and all records to be maintained as per the Explosives Rules, 2008. 4.All unused Explosives should be returned to Explosive magazine before Sunset. के संदर्भ में यथा संशोधित कर भेजी जा रही है।  
The Licence No.: E/SC/KL/22/1700(E75728) is forwarded herewith duly amended in respect of followings :

usage of Explosives at the Proposed Granite Building Stone Quarry granted to K.MANOJ KUMAR, (E.C No. 105/2018, dated 16.08.2018) Situated at Re. Survey No. 68, 71/1,2, Mundakkara Desom, Kinaloor Village, Thamarassery Taluk, Kozhikode District, Kerala, Issued by State Level Impact Assessment Authority, Kerala under the following conditions. 1.Opening of Mines should be intimated to DGMS and Director of Mines & Geology. 2.Blasting Operations should be conducted as per Mines Act & Rules. 3.Usage of Explosives to be as per Explosives Rules, 2008 and all records to be maintained as per the Explosives Rules, 2008. 4.All unused Explosives should be returned to Explosive magazine before Sunset.

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 No	विस्फोटक Explosive(s)	वर्ग Class	प्रभाग Div	उप-प्रभाग Sub Div	क्षमता Capacity	इकाई Unit
1	Nitrate Mixture	2	0	0	150	Kg.
2	Safety Fuse	6	1	0	2000	Mtrs
3	Electric and/or Ordinary Detonators	6	3	0	1500	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 2028 तक प्रवृत्त रहेगी।  
This Licence shall remain valid till 31st day of March 2028.

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

(डा.टी.एल.थनुलिंगम | Dr. T. L. THANULINGAM)

उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives  
कृते संयुक्त मुख्य विस्फोटक नियंत्रक | For Joint Chief Controller of Explosives  
दक्षिणांचल, चेन्नै | South Circle, Chennai

प्रतिलिपि प्रेषित | Copy Forwarded to:

- उप मुख्य विस्फोटक नियंत्रक कोच्ची  
The Dy. Chief Controller of Explosives, Kochi
- District Magistrate, KOZHICODE, Kerala with reference to his Noc No: No.2013/5310/11/D5 Dated: 05/07/2014
- Superintendent of Police, KOZHICODE, Kerala.

कृते संयुक्त मुख्य विस्फोटक नियंत्रक | For Joint Chief Controller of Explosives  
दक्षिणांचल, चेन्नै | South Circle, Chennai

(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 T L THANULINGAM  
Reason: Licence No. : E/SC/KL/22/1700  
Location Chennai [E75728]  
2023.02.14 10:12:23

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/SC/KL/22/1700(E75728)

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

1. Licence is hereby granted to

Sh. K. Manoj Kumar (अधिभोगी / Occupier : E Manoj Kumar), Kizhakkedath House, Moorikkara P.O., Kakkodi, Kozhikode Distt.,  
Town/Village - Kakkodi, District-KOZHIKODE, State-Kerala, Pincode - 673611



को अनुज्ञप्ति अनुदत्त की जाती है।

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

3. अनुज्ञप्ति निम्नलिखित प्रयोजनों के लिए विधिमान्य है।

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

Licence is valid only for the following purpose.

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 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	150 Kg.
2.	Safety Fuse	6, 1	0	2000 Mtrs
3.	Electric and/or Ordinary Detonators	6, 3	0	1500 Nos.

(ख) किसी एक कलेंडर 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)]:

20 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/SC/KL/22/1700(E75728)  
दिनांक (Dated) 14/02/2023

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

Survey No. R.Sy.No.71/2, ग्राम (Town/Village) : Kinalur (v), Koyandy Taluk

जिला (District)

KOZHIKODE

दूरभाष (Phone)

राज्य (State)

Kerala

ई. मेल (E-Mail)

पिनकोड (Pincode)

673611

फैक्स (Fax)

7. अनुज्ञप्ति परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं।

The licensed premises consist of following facilities.

Three portable magazines

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.

1. 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.

2. अनुज्ञप्ति प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञप्ति की शर्तों और अतिरिक्त शर्तों।

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

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

9. यह अनुज्ञप्ति तारीख 31 मार्च 2018 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2018.

यह अनुज्ञप्ति, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपवर्णित 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 - 28/07/2014

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

Amendments :

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 19/04/2016
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 21/03/2018
- Amendment in Drawings/Facilities/Premises dated : 14/02/2023
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 14/02/2023

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
13/02/2023	31/03/2028	Sd/- Dy. Chief Controller of Explosives, Emakulam

**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 T L THANULINGAM  
Reason: Licence No. : E/SC/KL/22/1700  
Location: Chennai [E75728]  
Date: 28/07/2014 12:11:31 PM

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



പനങ്ങാട് ഗ്രാമപഞ്ചായത്തിൽ നിന്നും

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

അതേ തുടർനുള്ള ചട്ടങ്ങളും അനുസരിച്ച്

ഫാക്ടറികൾ, വ്യാപാരങ്ങൾ, സംരംഭങ്ങൾ, മറ്റു സേവനങ്ങൾ എന്നിവയ്ക്കായി നൽകുന്ന

ലൈസൻസ്

നമ്പർ : : 400968/RPTL20/GPO/2023/2890

തീയതി : 31.03.2023

ലൈസൻസിയുടെ പേരും മേൽവിലാസവും	കെ മനോജ് കുമാർ, കിഴക്കേടത്ത് ഹൗസ്, മുരിക്കര, കക്കോടി MOB 9447065159	
സ്ഥാപനത്തിന്റെ പേരും സ്ഥലനാമവും	മലയിലത്തോട്ട് ഗ്രാനൈറ്റ്സ് വട്ടോളിബസാർ	
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	കിനാലൂർ വില്ലേജിൽ റി സർവ്വേ നമ്പർ 71/1,71/2,68 ൽ പ്പെട്ട 1. 8375 ഹെക്ടർ സ്ഥലത്ത് നിന്നും കരികല്ല് പൊട്ടിച്ച് വിൽപന നടത്തുന്നതിന്	
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡ് നമ്പരും	വാർഡ് 12 ൽ കിനാലൂർ വില്ലേജ് റിസർവ്വേനമ്പർ 71/1,71/2.68	
ലൈസൻസ് കാലയളവ്	01-04-2023 മുതൽ 14-08-2023 വരെ	
ഈടാക്കിയ ലൈസൻസ് ഫീസ്	10000 /- രൂപ	രസീത് നം: 1220106500 തീയതി: 31-03-2023
തൊഴിൽക്കരം	1250 /- രൂപ	രസീത് നം: 1220106500 തീയതി: 31-03-2023
ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരാക്ഷേപപത്രങ്ങളുടെ വിശദാംശങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാരസ്ഥാനം)	1) പ്ലാസ്റ്റിക് നിരോധനം സ്ഥലനാമം എന്നിവ സംബന്ധിച്ച സത്യവാങ് മൂലം 2) 15/08/2023 തീയതി വരെ വാലിഡ് ആയ പൊലുഷൻ സർട്ടിഫിക്കറ്റ് 3) സർവ്വേ മാപ്പ് 4) 15/08/2023 തീയതി വരെ കാലാവധി ഉള്ള എൺവിയോൺമെന്റ് ക്ളയറൻസ് സർട്ടിഫിക്കറ്റ് 5) പാർട്ണർ ഷിപ്പ് ഡീഡ് 6) 31/03/2028 വരെ കാലാവധി ഉള്ള എക്സ്പോസിവ് ലൈസൻസ് 7) പാറപ്പൊട്ടിക്കുന്ന ആളുടെ വൈദക്ഷ്യം തെളിയിക്കുന്ന സർട്ടിഫിക്കറ്റ്	



  
 31/03/2023  
 സെക്ഷനി  
 മുഹമ്മദ് ലൂക്മാൻ. എം. പി  
 പനങ്ങാട് ഗ്രാമപഞ്ചായത്ത്  
 സെക്ഷനി  
 പനങ്ങാട് ഗ്രാമപഞ്ചായത്ത്  
 പി.ഒ.പനങ്ങാട്, കോർഡോട് - 673 612  
 ഫോൺ: 0486 264 2059



**ANNEXURE 5**  
**QUARRYING PERMIT**

516/1/2020.



KERALA

N 720814



FORM H  
(See Rule 43)  
QUARRYING LEASE

This deed of lease made on this the 26<sup>th</sup> day of February.....2020 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 Shri. Manoj Kumar. K, Aged 46 years, S/o. Sreenivasan Nair, Residing at Kizhakkedath, NV Road, Moorikkara P. O, Kakkodi, Kakkodi Village, Kozhikode Taluk, Kozhikode District - 673 611 (Aadhaar No. 4562 8912 0813) (hereinafter called the "lessee/lessees" which expression shall where the context so admits, include his/their heirs, executors, administrators, representatives and permitted assigns) of the other part.

Lessor  
Abraham Kunhi. K.  
Geologist District officer Department of mining  
and Geology Civil Station Kozhikode. 673020

Manojkumar. K Lessee

No: 27801 Values Rs.....

Name: Manojkumar. K

Date: 26.02.2020

KAKKODI S.R.O. VENDOR  
M. C. SUDHAKARAN



Lessor  
Geologist District officer Department of  
Mining and Geology Civil Station Kozhikode.  
673020.

Lessee

516/1/2020.

Presented in the office of the Sub Registrar  
Balussery at 11:40 on the 13  
day of May 2020 and affixing photo  
and Thumb Impression of the Lessee  
under Section 32A and  
a fee of Rs. 6812/- paid by  
7019

Manoj Kumar K R

Residing at Kizhakkedath  
13th May 2020

Execution admitted by

B.S. BEENA  
SUB REGISTRAR



Manoj Kumar K R

S/o Sreenivaram Nair residing at  
Kizhakkedath, N.V. Road Moorilekara.

I have satisfied that execution of this  
instrument made by Abraham Kunhi, K. District  
Geologist, Kozhikode who is exempted from  
personal appearance under Sec 88(1) of Indian  
Registrations Act.

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Executed at 1st

Identified by

Chemmalapurath, PRAKASHAN  
Kannan Kera - Chellanur



S/o. Kamarakutty

No: Values Rs  
Name  
Date  
M.C. SUDHAKARAR

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 **1.0261 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 **10 (Ten) years** commencing from the ...26.02.2020.....and ending on the 25.02.2030 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 (here in 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 authorized 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 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.

.....3

Ibrahim Kunhi. K.

Lessor

Geologist District Officer Department of  
Mining and Geology Civil Station Kozhikode.  
673020.

Manoj Kumar. K. Lessee

2 mullappuzhi Dhanayagi ~~and~~ s/o Sreedhevan Nair  
Document writer Thrikkuthi Sery

13<sup>th</sup> may 2020

Registered as document No:..

516...of book I..... Volume 80..

Page III to 128 ....7...sheets....

2<sup>nd</sup> Sheet.....Day of.....

13<sup>th</sup> may 2020

  
B.S. BEENA  
SUB REGISTRAR

  
B.S. BEENA  
SUB REGISTRAR



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 metres from any railway line except with the previous written permission of the railway administration concerned and any bridge on National Highway or 50 metres 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 except with the previous permission of the authorities concerned or the Government or competent authority.
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 responsible for implementing the provisions of the various labour laws applicable, from time to time, to the quarry.

Lessor

*Abraham Kanti . K*  
Geologist District Officer, Department  
of mining and Geology Civil Station  
Kozhikode . 673020.

Manoj Kumar. Lessee

4


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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 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 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 authorised 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 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.

  
Lessor  
Ibrahim Kunhi K.  
Geologist District Officer Department of  
Mining and Geology Civil Station Kozhikode  
673020.

  
Manoj Kumar Klessee



The Registrar is pleased to inform you that the application for registration of the book has been received and the same is being processed. The book is being registered in the name of the author and the title of the book. The registration fee has been received and the same is being processed. The registration certificate will be issued to you as soon as the processing is complete. The registration certificate will be valid for a period of five years from the date of issue. The registration certificate will be issued to you as soon as the processing is complete. The registration certificate will be valid for a period of five years from the date of issue.

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Registrar, District Office, Department of  
Registration, Government of India

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.
23. In this case, for the purpose of stamp duty, the anticipated royalty to be remitted for the mineral extracted per year at the present rate of royalty of Rs. 24/- per tonne with proposed average annual production of 12,640 tonne is Rs. 3,03,360/- (Rupees three lakhs three thousand three hundred and sixty only) and may enhance the quantity of production and period of lease with the prior permission of the lessor and registration of the lease deed amended accordingly.
24. In this case, the surface rent to be remitted per year at the present rate of Rs. 5/- per Are per year is Rs. 513/- (Rupees five hundred and thirteen only) and the refundable Security Deposit is Rs. 10,261/- (Rupees ten thousand two hundred and sixty one only).

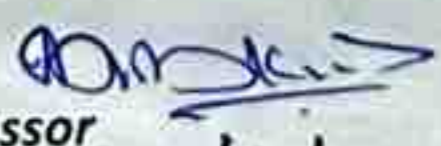
### SCHEDULE OF DESCRIPTION OF LAND

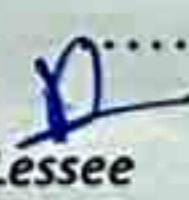
District : Kozhikode  
Taluk : Thamarassery

Village	Block No.	Re - Survey Nos.	Lease Area in Hectares
Kinalur	3	68	0.0516
- do -	3	71/1	0.0822
-do-	3	71/1	0.6840
-do-	3	71/1	0.0567
	3	71/2	0.1516
<b>Total Area in Hectares</b>			<b>1.0261</b>

### Bounded by Survey No:

On the North by : Re - Survey Nos. 68, 71/1  
On the East by : Re - Survey Nos. 71/1, 70  
On the South by : Re - Survey No. 71/2  
On the West by : Re - Survey Nos. 71/2, 71/1, 68

  
Lessor  
Ibrahim Iqbal K.  
Geologist District Officer Department of  
Mining and Geology Civil Station  
Kozhikode. 673020.


  
Manoj Kumar K. Lessee

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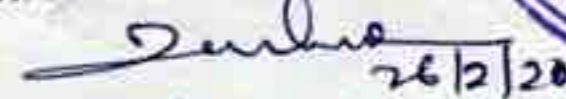
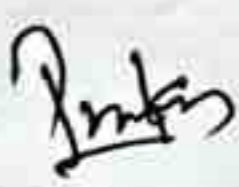
In witness whereof the parties hereto have set their hands here unto on the day and year first above written.

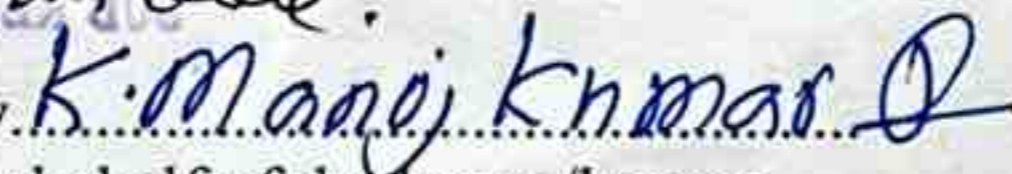
Signed by..... Ibrahim Kunhi K., Geologist   
for and on behalf of the Governor of Kerala.

**GEOLOGIST**  
DISTRICT OFFICE  
DEPARTMENT OF MINING AND GEOLOGY  
CIVIL STATION  
KOZHIKODE - 673 020




In the presence of


- P. C. Reshmi D/o. Dr. C. K. C. Nair (late)  26/2/20
- (1) Asst. geologist, District Office of Mining & Geology  
District Office Civil Sta Kozhikode
  - (2) Praveen Kumar of Slo Padmanabhan   
Secretary, District Office of Mining & Geology  
Kozhikode.

Signed by.....   
for and on behalf of the lessee/lessees

In the presence of

- (1) എ. കെ. മുഹമ്മദ്  
അസിസ്റ്റന്റ്  
സെക്രട്ടറി ഡി. ഓ. ഓ. ജി.  
കോഴിക്കോട്
- (2) അബ്ദുൽ ഖാദിർ. കെ.   
പി. ഓ. ഓ. ജി.  
കോഴിക്കോട്  
സെക്രട്ടറി  
ഡി. ഓ. ഓ. ജി.  
കോഴിക്കോട്

Note of Corrections . Nil.

  
Lessor  
Ibrahim Kunhi. K.  
Geologist District Officer Department of  
Mining and Geology Civil Station  
Kozhikode 673020.

  
Lessee  
Manoj Kumar. K.

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In document corrections nil

No difference between original document and duplicate.  
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and duplicate compared by } Examined Bwathi Ak Clerk Bwathi

13th May 2020

  
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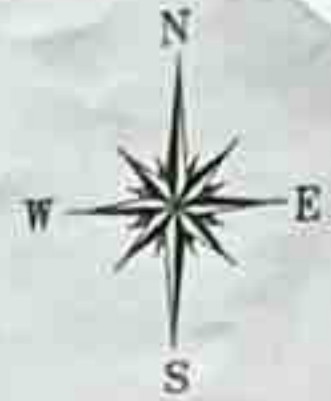
  
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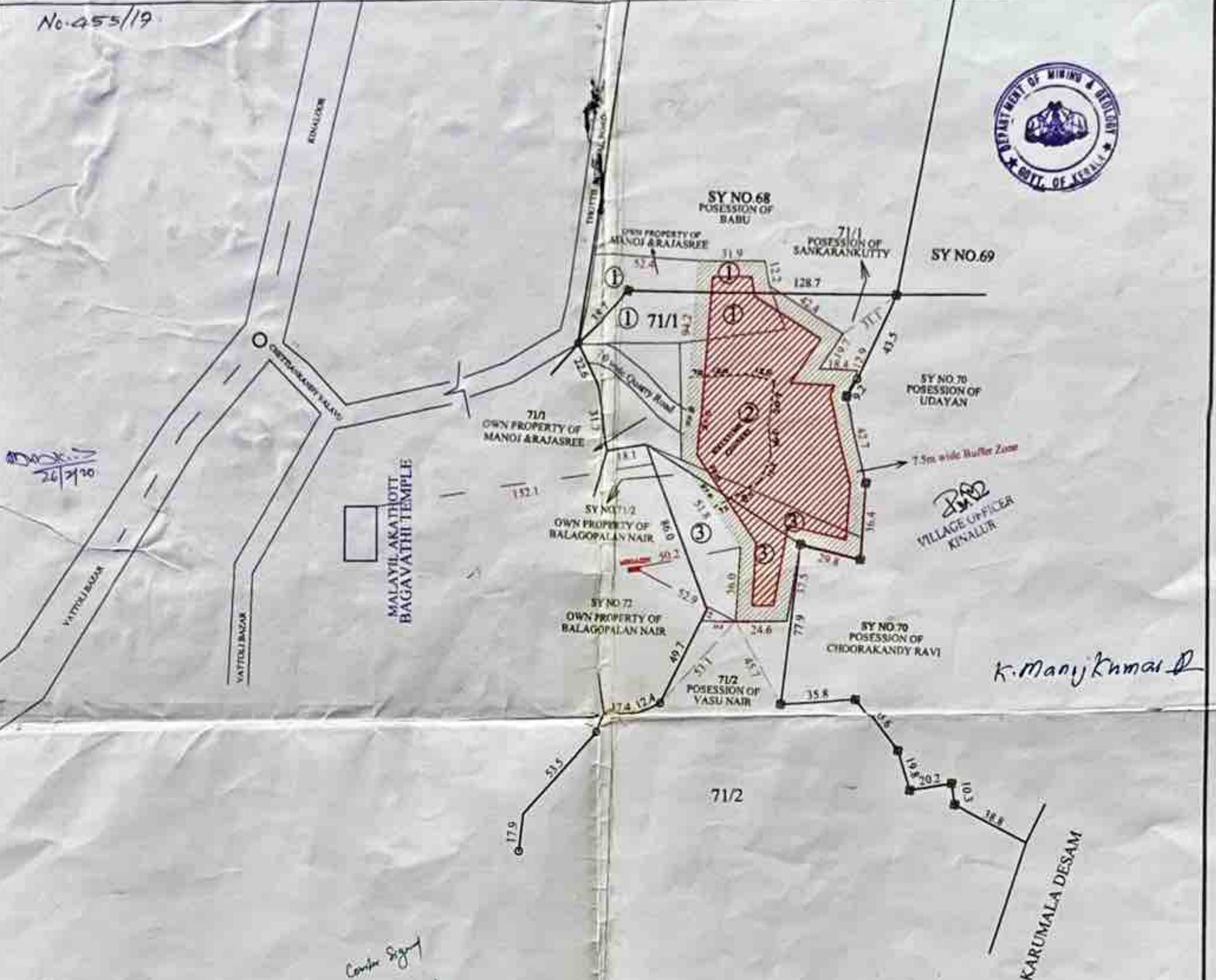
DISTRICT : KOZHIKODE  
 TALUK : THAMARASSERY  
 VILLAGE : KINALOOR  
 DESAM : MUNDAKKARA

# SURVEY MAP

RS.NO: 71/1,2 RS NO: 68



No.455/19



K. Manj Kumar



MUHAMMED RAFAQ  
 TAHSILDAR  
 THAMARASSERY



VILLAGE OFFICER  
 KINALOOR

## DOCUMENT DETAILS:-

	Mining Area	0.6806 Hect
	Buffer Area	0.3455 Hect
<b>TOTAL</b>		<b>1.0261 Hect</b>
	Existing Quarry	0.3533 Hect

SL NO	Name	DOC.NO & S.R.O	RS.NO.	Extent in Possession	Proposed Lease Area	Buffer Area	Mining Area	LEGEND	
1	MANOJ KUMAR&RAJASREE	1592/09 S.R.O BALUSSERY	68	0.3320 Hectore	0.0516 Hectore	0.0364 Hectore	0.0152 Hect		SURVEY BOUNDARY
			71/1		0.0822 Hectore	0.0190 Hectore	0.0632 Hect		LEASE BOUNDARY INCLUDED BUFFER ZONE
2	MANOJ KUMAR&RAJASREE	1593/09 S.R.O BALUSSERY	71/1	0.6840 Hectore	0.6840 Hectore	0.1605 Hectore	0.5215 Hect		Rock mark
3	BALAGOPALAN NAIR	1931/71 S.R.O BALUSSERY	71/1	0.8215 Hectore	0.0567 Hectore	0.0374 Hectore	0.0193 Hect		Survey stone
			71/2		0.1516 Hectore	0.0922 Hectore	0.0594 Hect		RESIDENTIAL HOUSE/BUILDING
<b>TOTAL</b>				<b>1.8375 HECTORE</b>	<b>1.0261 HECTORE</b>	<b>0.3455 HECTORE</b>	<b>0.6806 Hect</b>		DOCUMENT BOUNDARY
									EXISTING QUARRY

SCALE : 1cm : 15m

VILLAGE OFFICER  
 KINALOOR

**ANNEXURE 7**  
**ENVIRONMENTAL MONITORING RESULTS**

## TEST REPORT

ULR No: TC540223000005037F

LRI No.: SEAAL23031345A

Date: 22-03-2023

Page 1 of 2

### CUSTOMER DETAILS

Customer Name & Address	<b>Mr.Manoj Kumar</b> Kizhakkedath NV Road, Morikkara P.O,Kakkodi, Kozhikode District
Customer Reference	Test Request date: 18-03-2023

### DETAILS OF MONITORING

Product Category	Atmospheric Pollution	Sample Code	EN23030658
Sample Name	Ambient Noise	Monitoring Commenced on	18-03-2023
Test Method	IS 9989:1981	Monitoring Completed on	19-03-2023
Monitoring Location	Project Site	Monitored by	Lab Authorized Sampler

### SAMPLING SITE DETAILS

Survey No.	68,71/1,72/2		
Village	Kinalur	Taluk	Thamarassery
District	Kozhikode	State	Kerala

### MONITORING RESULTS - Leq

TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	37.2	14:00	49.9	22:00	36.1
07:00	39.9	15:00	50.3	23:00	35.5
08:00	44.2	16:00	51.5	24:00	38.1
09:00	47.6	17:00	51.8	01:00	38.8
10:00	49.9	18:00	46.5	02:00	38.4
11:00	53.0	19:00	43.0	03:00	39.2
12:00	50.3	20:00	39.2	04:00	38.1
13:00	49.5	21:00	38.7	05:00	39.9



**Shency Joy**  
Dy.TM-Chemical  
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.

## Standard<sup>S</sup> Environmental & Analytical Laboratories

Accreditation & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017  
vide Certificate No. TC - 5402 & "A" Grade Laboratory approved by KSPCB.

K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43  
Web: www.sealabs.in, E-mail: seaalab@gmail.com



**TEST REPORT**

**ULR No: TC540223000005037F**

LRI No.: SEAAL23031345A

Date: 22-03-2023

Page 2 of 2

Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time	dB(A)	48.4
2	Ambient Sound Level (Leq) Night Time	dB(A)	38.4

Remarks:

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

Standards



**Shency Joy**  
**Dy.TM-Chemical**  
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.

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vide Certificate No. TC - 5402 & "A" Grade Laboratory approved by KSPCB.

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Web: www.sealabs.in, E-mail: seaalab@gmail.com

## TEST REPORT

ULR No: TC540223000005034F

LRI No.: SEAAL23031342A

Date: 22-03-2023

Page 1 of 2

### CUSTOMER DETAILS

Customer Name & Address	<b>Mr. Manoj Kumar</b> Kizhakkedath NV Road, Morikkara P.O, Kakkodi, Kozhikode District
Customer Reference	Test Request Date: 18-03-2023

### SAMPLE DETAILS

Product Category	Water	Sample Code	WT23030297
Sample Name	Ground Water	Sample Received on	20-03-2023
Sample Description by Customer	Open Well Water	Temperature @ Receipt	4°C
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	20-03-2023
Sample Quantity & Packing	1 L & 125 ml in a Plastic Bottle	Test Completed on	22-03-2023
Information Provided by Customer	---	Sampled by	Not Drawn by Laboratory

### SAMPLING SITE DETAILS

Survey No.	68,71/1,72/2		
Village	Kinalur	Taluk	Tamarassery
District	Kozhikode	State	Kerala

### TEST RESULTS- CHEMICAL PARAMETERS


Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012
1	Colour	IS 3025 (Part 4): 1983	Hazen	1	5 (Max)
2	Odour	IS 3025 (Part 5): 2018	---	Agreeable	Agreeable
3	Turbidity	IS 3025 (Part 10): 1984	NTU	0.6	1.0 (Max)



**Shency Joy**  
Dy. TM-Chemical  
Checked by




**Salini T.S.**  
Microbiologist  
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.

### Standard<sup>S</sup> Environmental & Analytical Laboratories

Accreditation & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017  
vide Certificate No. TC - 5402 & "A" Grade Laboratory approved by KSPCB.

K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43  
Web: www.sealabs.in, E-mail: seaalab@gmail.com

## TEST REPORT

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LRI No.: SEAL23031342A

Date: 22-03-2023

Page 2 of 2

### TEST RESULTS- CHEMICAL PARAMETERS

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012
4	pH	IS 3025 (Part 11): 1983	---	6.87	6.50-8.50
5	Conductivity	IS 3025 (Part 14):1984	µS/cm	118	---
6	Total Dissolved Solids	IS 3025 (Part 16): 1984	mg/L	75.0	500 (Max)
7	Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part 21): 2009	mg/L	30.0	200 (Max)
8	Calcium as Ca	IS 3025 (Part 40): 1991	mg/L	8.00	75 (Max)
9	Magnesium as Mg	IS 3025 (Part 46): 1994	mg/L	2.44	30 (Max)
10	Chloride as Cl	IS 3025 (Part 32): 1988	mg/L	26.6	250 (Max)
11	Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23): 1986	mg/L	9.95	200 (Max)
12	Iron as Fe	IS 3025 (Part 53): 2003	mg/L	0.32	1 (Max)
13	Sulphate as SO <sub>4</sub>	IS 3025 (Part 24): 1986	mg/L	2.50	200 (Max)

### TEST RESULTS - BIOLOGICAL PARAMETERS

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\*\*\*



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## TEST REPORT

**ULR No: TC540223000005036F**

LRI No.: SEaal23031344A

Date: 22-03-2023

Page 1 of 1

### CUSTOMER DETAILS

Customer Name & Address	<b>Mr. Manoj Kumar</b> Kizhakkedath NV Road, Morikkara P.O, Kakkodi, Kozhikode District
Customer Reference	Test Request date: 18-03-2023

### SAMPLE DETAILS

Product Category	Atmospheric Pollution	Sample Code	EN23030657
Sample Name	Ambient Air	Sample Received on	20-03-2023
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	20-03-2023
Sampled by	Lab Authorized Sampler	Test Completed on	21-03-2023

### DETAILS OF SAMPLING

Sampling Location	Project Site	Date of Sampling	18-03-2023
Sampling Procedure	SEaal/ENL/GEN/SOP/02	Humidity	69 %

### SAMPLING SITE DETAILS

Survey No.	68,71/1,72/2		
Village	Kinalur	Taluk	Thamarassery
District	Kozhikode	State	Kerala


### TEST RESULTS-CHEMICAL

SL NO	PARAMETERS	TEST METHOD	UNIT	RESULT	KSPCB LIMIT
1	Particulate matter (PM <sub>10</sub> )	IS 5182 (Part 23): 2006	µg/m <sup>3</sup>	64.5	100 (Max)
2	Particulate matter (PM <sub>2.5</sub> )	IS 5182 (Part 24): 2019	µg/m <sup>3</sup>	33.8	60.0 (Max)
3	Sulphur dioxide (as SO <sub>2</sub> )	IS 5182 (Part 2): 2001	µg/m <sup>3</sup>	<4.00	80.0 (Max)
4	Oxides of Nitrogen as NO <sub>2</sub>	IS 5182 (Part 6): 2006	µg/m <sup>3</sup>	<4.00	80.0 (Max)

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

  
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