

GRANITE BUILDING STONE QUARRY OF  
V.MOIDEEN  
(V.K.M STONE CRUSHER)

SURVEY NO. : 103/2  
EXTENT : 1.5195 hectares  
VILLAGE : KANNAMANGALAM  
TALUK : TIRURANGADI  
DISTRICT : MALAPPURAM  
STATE : KERALA

**6<sup>th</sup> COMPLIANCE REPORT**

Ref: EC. No: 27/2017 (File no: DEIAA/MAL/EC/029/2017) -

DATED: 01-12/2017

FOR THE PERIOD FROM  
**APRIL 2020 TO SEPTEMBER 2020**

**GEC MINING SOLUTIONS,**  
**THIRUVANANTHAPURAM**  
**EMAIL : geccompliancereport@gmail.com**

# M/S. V.K.M STONE CRUSHER

Cherur P.O, Kannamangalam, Vengara, Malappuram, Kerala

DATE; 30-12-2020

To,

The Additional principal chief Conservator of Forests©  
Ministry of environment, Forests & Climate Change,  
4<sup>th</sup> Floor, E&F Wing, Kendriya Sadan,  
Koramangala, Bangalore - 560034.

Ref: EC. No: 27/2017 (File no: DEIAA/MAL/EC/029/2017) dated: 01/12/2017

Sub: Environmental Clearance- Quarry project at Survey No. 103/2 in  
Kannamangalam Village, Tirurangadi Taluk, Malappuram District, Kerala.

Respected Sir,

The quarry (Building Stone) Project was accorded Environmental Clearance for 1.1595 hectares, By Order No: EC No: 27/2017 (File no: DEIAA/MAL/EC/029/2017) dated: 01/12/2017 by District Environment Impact Assessment Authority, Malappuram. Compliance report to the specific and general conditions of the Environmental Clearance is enclosed herewith.

Thanking you

Yours respectfully,

M/s. V.K.M Stone Crusher



Mr. V.Moideen  
(Managing partner & Authorized signatory)

Copy to:-

The Member Secretary  
State Environment Impact assessment Authority (SEIAA)  
Thiruvananthapuram, Kerala.

Encl: As Above.

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## I. ABOUT THE PROPONENT

Mr. V. Moideen, Managing partner & Authorized signatory of M/s V.K.M Stone Crusher, Cherurp.o, Kannamangalam, Vengara, Malappuram district.

District Environment Impact Assessment authority (DEIAA) Malappuram accorded Environmental Clearance No: 27/2017 (File no: DEIAA/MAL/EC/029/2017) dated: 01-12/2017 to the quarry project in Kannamangalam Village, Thirurangadi Taluk, Malappuram District, Kerala State managed by Mr. V. Moideen.

## II. ABOUT THE PROJECT

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

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

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

Survey No. 103/2 in Kannamangalam Village, Thirurangadi Taluk, Malappuram District, Kerala.

The proposed project site falls within latitude and longitude value:

Latitude (N)	N 11°5'58.83" to N 11°06'2.75"
Longitude (E)	E 75°59'52.99" to E 75°59'59.16"

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

The project is for quarrying of 50,000TPA of building stone from an area of 1.1595 hectares of land located as specified above.

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

The project activity involves about 100 % of the pit area for exploring building stone. At the end of life of mine, excavated pit will be fully reclaimed and rehabilitated by plantation. The project does not involve any underground mining activities. The mining is done by open cast semi mechanized method. The expected life of mine is 12 years.

### III. REPORT OF COMPLIANCE

#### A. SPECIFIC CONDITIONS

ITEM NO	STIPULATIONS IN EC	STATUS OF COMPLIANCE
S-1	The overburden shall be properly stacked and it shall not in any way obstruct the valley adjacent to the property.	Yes, Scrupulously follows the directions contained..
S-2	Evergreen type of plants (Tamarind, gooseberry, "vaka") should be planted around the quarry and in buffer zone and adjacent area so as to compensate the number of tree fell during mining operation.	Would be planted.
S-3	Rainwater harvesting shall be practiced to reduce to groundwater consumption.	Would be provided
S-4	CSR shall be spent at a rate of Rs.10 for production of very tonne of granite building stone in the quarry of the concerned local body, such as government institutions.	CSR activities are being implemented. <b>ANNEXURE 6</b>
S-5	Proper fencing shall be around the quarry area.	Scrupulously follows the directions contained. <b>PLATE 6</b>
S-6	The overburden and soil removed from the quarry shall be properly stacked in the nearby area.	Yes, it is provided as per the conditions. <b>PLATE 7</b>
S-7	Preventive measures shall be taken to control soil erosion.	Yes, it is provided.
S-8	The trees cut and removed from the lease area shall be compensated during mine closure period.	The trees cut and removed from the lease area shall be compensated during mine closure period.
S-9	Fast growing plants must be grown along the buffer zone.	Yes, it is provided.
S-10	Proper distance shall always be kept from the valley to the mining area.	Yes, it is provided.
S-11	The soil, overburden or tailing shall always dump away from the valley.	Yes, it is provided. <b>PLATE 7</b>
S-12	Garland drain method shall be adopted to avoid pollution in the stream.	Would be provided.
S-13	Fast growing and evergreen type of plants shall be grown along the buffer zone and its surroundings.	Yes, it is provided.

S-14	There shall be provision for harvesting the total amount of rain water in the entire quarry area with sufficient storage facility.	Would be provided.
S-15	Blasting shall be limited to two times daily.	Yes, it is provided. <b>PLATE 8</b>
S-16	Controlled blasting techniques shall be adopted to avoid any danged from flying rocks to the nearby house.	Would be implemented.
S-17	Mines manager shall be appointed to control, direct, manage and supervise the quarrying operations as required under the Mines Act,1952	It will be provided.
S-18	A green belt shall be developed along with boundary of the lease area.	Yes, it is provided.
S-19	Evergreen type of trees must be planted to reduce the consequences of dust originating from it.	It shall be ensured that the directions contained are scrupulously followed.
S-20	Garland drain must be provided to control water pollution during rainy seasons.	Would be provided.
S-21	Health and welfare measures for the persons employed shall be implemented.	Health and welfare measures for the persons employed are being implemented.
S-22	Controlled blasting should be practiced and blasting shall be done only during day time.	Controlled blasting practiced and blasting is done only during day time.
S-23	The mitigative measures for control of ground vibrations to arrest the fly rocks and boulders should be implemented.	The mitigative measures for control of ground vibrations to arrest the fly rocks and boulders are implemented.
S-24	Plantation shall be done which includes a green belt of adequate width around the mining lease area excluding the rocky area, along roads, overburden dumps and non -mineralized area by planting suitable native specious in consultation with the local DFO/Agriculture Department.	Activities are being implemented.
S-25	The drains should be regularly de-silted and maintained properly. Check dam and gully checks shall be constructed wherever required to arrest siltation. De-siltation shall also be done every year before the onset of monsoon.	Would be provided.
S-26	Fencing must be maintained properly all around the lease area.	Fencing is maintained properly all around the lease area. <b>PLATE 6</b>

S-27	Appropriate sign boards should be displayed. Alternative road must be constructed.	Appropriate sign boards are displayed. <b>PLATE 9</b>
S-28	The blasting time must be displayed and strictly adhered to.	The blasting time is displayed and strictly adhered to. <b>PLATE 8</b>
S-29	Dust suppression mechanism must be in place.	It is ensured.
S-30	A separate small plot to be maintained in the premise to preserve rare and endemic species, if any, listed in the biodiversity assessment etc.	It is provided.
S-31	The PPV values must be less than 10mm/sec.	It shall be ensured.
S-32	Where the height of the bench formed during earlier workings exceeds the maximum reach of the excavator engaged for work, such bench height shall be reduced from top to bottom.	Scrupulously follows the directions contained. <b>PLATE 5</b>
S-33	Loose or hanging rock or mineral boulder on the side wall is dressed down before engaging persons for work at the bottom of the bench.	It is ensured that all the loose or hanging rock or mineral boulder on the side wall be dressed down
S-34	Permanent boundary pillars should be fixed by the proponent before commencing quarrying	Would be provided.
S-35	The proponent should submit cluster certificate before commencing quarrying activities.	Would be provided.



## B. GENERAL CONDITIONS OF HEALTH

1	First Aid Kit provided in the work site. It shall be periodically maintained properly. Some laborers shall be trained on First Aid.	Scrupulously follows the directions contained.
2	Wholesome drinking water should be provided.	Drinking water is provided.
3	Premises should be maintained as wet suppress the dust.	Scrupulously follows the directions contained.
4	Sanitary type of latrines and urinals should be provided.	Latrines and urinals are provided.
5	Resting place should be provided for workers.	Resting place is provided for workers.
6	'No Smoking' board should be exhibited according to COTPA Act	'No Smoking' boards are placed.
7	Work should not be done in night.	No works in night.
8	Details of nearest hospital, Shortest route to hospital and contact no. etc. should be available.	Details of nearest hospital, Shortest route to hospital and contact no. etc. are displayed.
9	Approach roads should be maintained properly and it should be paved with laterite / granite rubbles in order to increase infiltration of rain water to the ground.	Scrupulously follows the directions contained.
10	First Aid Kit provided in the work site. It shall be periodically maintained properly. Some laborers shall be trained on First Aid.	Scrupulously follows the directions contained.

### C. GENERAL CONDITIONS

Item No	STIPULATIONS IN EC	STATUS OF COMPLIANCE
G-1	Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified.	Would be provided.
G-2	Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.	An Environment Monitoring Cell is constituted and made functional. <b>INDEX.IV.c</b>
G-3	Suitable avenue trees should be planted along either side of tarred road and open parking areas, if any, inclusive of approach road and internal roads.	Avenue trees by way of natural vegetation are present along either side of the tarred road, both approach road and internal road. <b>PLATE 2 &amp; 3</b>
G-4	Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.	Would be provided.
G-5	Sprinklers shall be installed and used in the project site to contain dust emissions.	Sprinklers are used in the project site to contain dust emissions.
G-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 will be done at the own cost of the project proponent. <b>ANNEXURE 1</b>
G-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 E.C	At the time of the closure of the mine, it shall be ensured that the directions contained are scrupulously followed.
G-8	Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented.	Activities towards Corporate Social Responsibility are being implemented. <b>ANNEXURE 6</b>
G-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.	Scrupulously follows the directions contained. <b>PLATE-6</b>

G-10	Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per Stipulations of Explosive Department.	Warning alarms will be installed in the project site.
G-11	Control measures on noise and vibration prescribed by KSPCB should be implemented.	Control measures on noise and vibration is as per KPSCB
G-12	Quarrying activities should be limited to day time as per KSPCB guidelines.	Quarrying activities is limited as per KPSCB guidelines.
G-13	Blasting should be done in a controlled manner as specified by the regulation of explosives Department or any other concerned agency.	Scrupulously follows the directions contained. <b>ANNEXURE 2</b>
G-14	A licensed person should supervise/control the blasting operations.	Scrupulously follows the directions contained.
G-15	Access roads to quarry shall be tarred to contain dust emissions that may arise during transportation of materials.	Scrupulously follows the directions contained.
G-16	Overburden materials should be managed within the site and used for reclamation of mine pit as per mine closure plan/ specific conditions.	Overburden is stacked in pre-determined site specified for the purpose.
G-17	Height of benches should not exceed 5 m and width should not be less than 5 m if there is no mention is the mining plan/specific conditions.	Height of the benches is maintained at 5 x 5 m. <b>PLATE-4</b>
G-18	Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.	Would be provided.
G-19	Maximum depth of mining from general ground level at site shall not exceed 10m.	Scrupulously follows
G-20	Non mining operations should be carried out at places having a slope greater than 45°.	Scrupulously follows the directions contained.
G-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.	Would be complained.
G-22	The workers on the site should be provided with the required protective	

	equipment such as ear muffs, helmet, etc.	The workers on the site is provided with the required protective equipment such as ear muffs, helmet, etc.
G-23	Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.	Would be provided.
G-24	The transportation of minerals should be done in covered trucks to contain dust emissions.	Scrupulously follows the directions contained.
G-25	The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.	Would be complained.
G-26	Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations.	Scrupulously follows the directions contained.
G-27	Explosives should be stored in magazines in isolated place specified and approved by Explosive Department.	Scrupulously follows the directions contained. <b>PLATE 10</b>
G-28	A Minimum buffer distance of 100 m from the boundary of the quarry to the nearest dwelling unit or other structure not being any facility for mining shall be provided.	Scrupulously follows the directions contained <b>PLATE 7</b>
G-29	100 m buffer distance should be maintained from forest boundaries.	Scrupulously follows the directions contained.
G-30	Consent from Kerala State Pollution, Control Board under Water and Air (Acts) should have been obtained before initiating mining activity.	Scrupulously follows the directions contained. <b>ANNEXURE 3</b>
G-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.	Scrupulously follows the directions contained.
G-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 EC is issued. The projects would require a fresh appraisal by this authority, for which the proponent shall apply and get the approval of this Authority.	Scrupulously follows

G-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.	All the safeguard measures are done as per Environment (Protection) Act, 1986.
G-34	The stipulations by Statutory Authorities under different Acts and Notifications should be complied with including the provisions of Water(Prevention and Control of Pollution)Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.	Scrupulously follows the directions contained.
G-35	The 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 also be seen on the website of the Authority at <a href="http://www.seiaakerala.org">www.seiaakerala.org</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	Advertised in local newspaper and submitted a copy of it as a proof in first compliance report.
G-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.	Scrupulously follows the directions contained. <b>ANNEXURE 5</b>
G-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 email) and upload the Status of compliance of the stipulated EC conditions, including results of monitored data on their website. It shall simultaneously be Sent to the respective Regional office of MoEF, Govt.of India and also to the State Environment Impact Assessment Authority (SEIAA ) Office	Conditions are being complied with. This report is in compliance with submission of six monthly compliance reports.
G-38	The details of Environmental Clearance should be prominently displayed in a metallic board of 3ft x3ftwith 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.	The conditions of Environmental Clearance are prominently displayed in a metallic board. <b>PLATE 4</b>
G-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.	The proponent has provided notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC have been scrupulously followed. <b>ANNEXURE 4</b>
G-40	No change in mining technology and scope of working should be made without prior approval of the SEIAA, No further expansion or modifications in the mine shall be carried out without prior approval of the SEIAA, as applicable.	Scrupulously follows the directions contained
G-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	Ensured that no natural water course and/or water resources were obstructed due to any mining operations.

	the mine lease shall be taken.	
G-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.	Scrupulously follows the directions contained as per the conditions.
G-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 dumpsite(s) only. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface runoff. In critical 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.	Scrupulously follows the directions contained as per the conditions. <b>PLATE 7</b>
G-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 in to the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green development etc. The drains shall be regularly de silted particularly after monsoon and maintained properly.	Scrupulously follows the directions contained.
G-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 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.	Scrupulously follows the directions contained and ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
G-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	Scrupulously follows the directions contained.
G-47	Measures should be taken for control of noise levels below 85dBA in the work environment.	Measures have been taken for the control of noise levels below 85DbA in the work environment.
G-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.	A separate environmental management cell with suitable qualified personnel has been set-up under the control of a Senior Executive, who will report directly to the Head of the Organization. <b>INDEX.IV.c</b>
G-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 State Environment Impact Assessment Authority (SEIAA) office.	The funds earmarked for environmental protection measures and CSR activities are being kept in separate account and have not been diverted for other purposes. Year wise expenditure will be reported to the State Environment Impact Assessment Authority (SEIAA) office. <b>ANNEXURE 5</b>
G-50	The Regional office of MOEF &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.	The Regional office of MOEF &CC located at Bangalore will monitor compliance of the stipulated conditions. The project authorities will extend full cooperation to the officer(S) of the Regional Office by furnishing the requisite data/ information/ monitoring reports.
G-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.	Strictly follow the rules and Scrupulously follows the directions contained.
G-52	Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may	

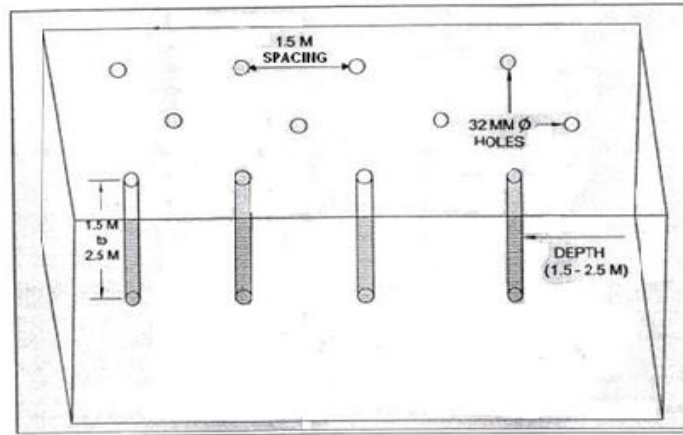


	result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986	Strictly follow the rules, if any factual data is concealed or false/fabricated data is submitted and failure to comply with any of the conditions mentioned above is found.
G-53	The SEIAA 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 condition in the interest of environment protection.	SEIAA can revoke any order if any of the specific or this implementation of any of the above conditions is not satisfactory.
G-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 any other authority for the same project.	Yes, all 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 any other authority for the same project.
G-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.	Yes, 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.
G-56	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.	Yes, the Environmental Clearance is subjected to the final order of the courts in any pending litigation related to the land or project, in any court of law.
G-57	The mining operation shall be restricted to above ground water table and it should not intersect ground water table.	The mining operation has been restricted to above ground water table and it will not intersect ground water table.
G-58	All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution taking center. Washing of all vehicles shall be inside the lease area.	Scrupulously follows the directions contained.
G-59	Project proponent should obtain necessary prior permission of the competent authorities for drawal of requisite quantity of surface water and ground water for the project.	Scrupulously follows the directions contained.
G-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.	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 will be carried out and reported in the six monthly reports to SEIAA.
G-61	Occupational health surveillance program of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Occupational health surveillance program of the workers will be done periodically to observe any contractions due to exposure to dust and corrective measures will be taken, if needed.

## IV.a. DRILLING

The excavation of mineral is proposed by excavators. The mineral is fractured and easily exploitable by rock breakers and excavators. The hard strata are proposed to excavate after drilling and blasting. The cross-sectional view of drilling operations is shown below:-



### Salient features of drilling

- About 30 to 50 holes per blast of 32 mm dia and to a depth of 2 to 2.5m will be adopted.
- It is estimated about 2 to 3 T production per hole.
- Number of blasts per day depends upon the workable area and production to be achieved.
- The spacing of 1.0 to 1.5m between the holes will be adopted.
- About 250g per hole of explosive will be used. However, 10 kg/blast will be adopted at any point of time.
- Millisecond electric blasting will be adopted to limit the PPV and Noise levels within the stipulated standards.

## **IV.b. BLASTING**

The controlled blasting is proposed by adopting all the safety measures as per “MMR 1961” and with the permission of DGMS.

In this area for fragmentation of granite the blasting will be conducted. Multiple blast holes of 1.0 to 1.5 m depth will be drilled with the help of 32 mm drill rod, Jack Hammer and Air Compressor of 100 cfm capacity.

It is estimated about 250 g of explosives per hole is required. About 30 – 50 holes per blast are proposed. Therefore, the requirement of explosives will be about 10 kg/ blast.

### **2.6.6.1 BLASTING SAFEGUARD**

- Blasting in the open cast pits will be done only during day time at designated hours.
- Only competent blasters will be appointed to handle explosive.
- Explosives will be stored in approved and licensed magazine as per Explosive Act/ Rules.
- Explosives will be brought from magazine to blasting site in licensed Explosive Van under the care of blaster.
- Sufficient warning signals will be given before blasting the holes.
- Guards will be posted on all roads and paths at least 250 m distance to stop entrance to the danger zone during blasting hour.
- Controlled blasting will be practiced to control vibrations and flying fragments.
- Optimum charge will be used, while blasting near office complex/ infrastructure site.
- Maximum charge per delay will always be less than 10kg to limit the PPV levels within the DGMS standards of 15 mm/sec.

#### IV.c. ENVIRONMENTAL MONITORING CELL

An environmental monitoring cell was formed with Mr. V. Moideen head of the monitoring cell and made functional. Meeting of monitoring cell is arranged monthly and discuss the status of the compliance of the specific and general conditions contained in the Environmental clearance order. The details of the monitoring cell members are given below:-

Sl. No.	Post	Name
1	Head of the monitoring cell	V. Moideen(Managing partner & Authorized signatory)
2	Head in charge (Environment)	Mr. Aboobacker
3	Senior Environmental Officer	Mr. Ummer
4	Environmental Officer	Mr. Hasainar
5	Name of the environmental officer in charge	Mr. Said alavi
6	Name of the officer Environment, Health and safety	Mr. Safeer Ali
7	Name of the Assistant Officer of Environment,Health and safety	Mr. Hasainar
8	Name of the environmental consultant	GEC Mining Solutions

#### IV.d. TREES IN THE SITE

Natural vegetation including trees, shrubs and herbs present in the quarry site are mentioned in the table below:-

<b>Sl No.</b>	<b>Scientific Name</b>	<b>Common Name</b>	<b>Family</b>
1	<i>Macaranga peltata</i>	Vatta	Euphorbiaceae
2	<i>Cocus Nucifera</i>	Coconut Tree	Areaceae
3	<i>Gliricidia sepium</i>	Seemakkonna	Fabaceae

## V. PLATES

### Plate -1

Quarry site



---

EC Compliance Report of Quarry Project of M/s V.K.M Stone Crusher

**Plate -2**

Photographs showing natural vegetation in the approach sides of roads





**Plate -3**

Photographs showing natural vegetation in the project area



**Plate -4**

Photograph showing details of the environmental clearance prominently displayed in a metallic board



**Plate -5**

Benches in the project Area



**Plate -6**

Fencing with barbed Wires



**Plate -7**

Top soil dump yard



**Plate -8**

**Blasting Time Displayed Board**



**Plate -9**

**Warning Sign Board**



**Plate -10**

**Explosive Magazine**





**Plate -11**

**Crusher Unit**

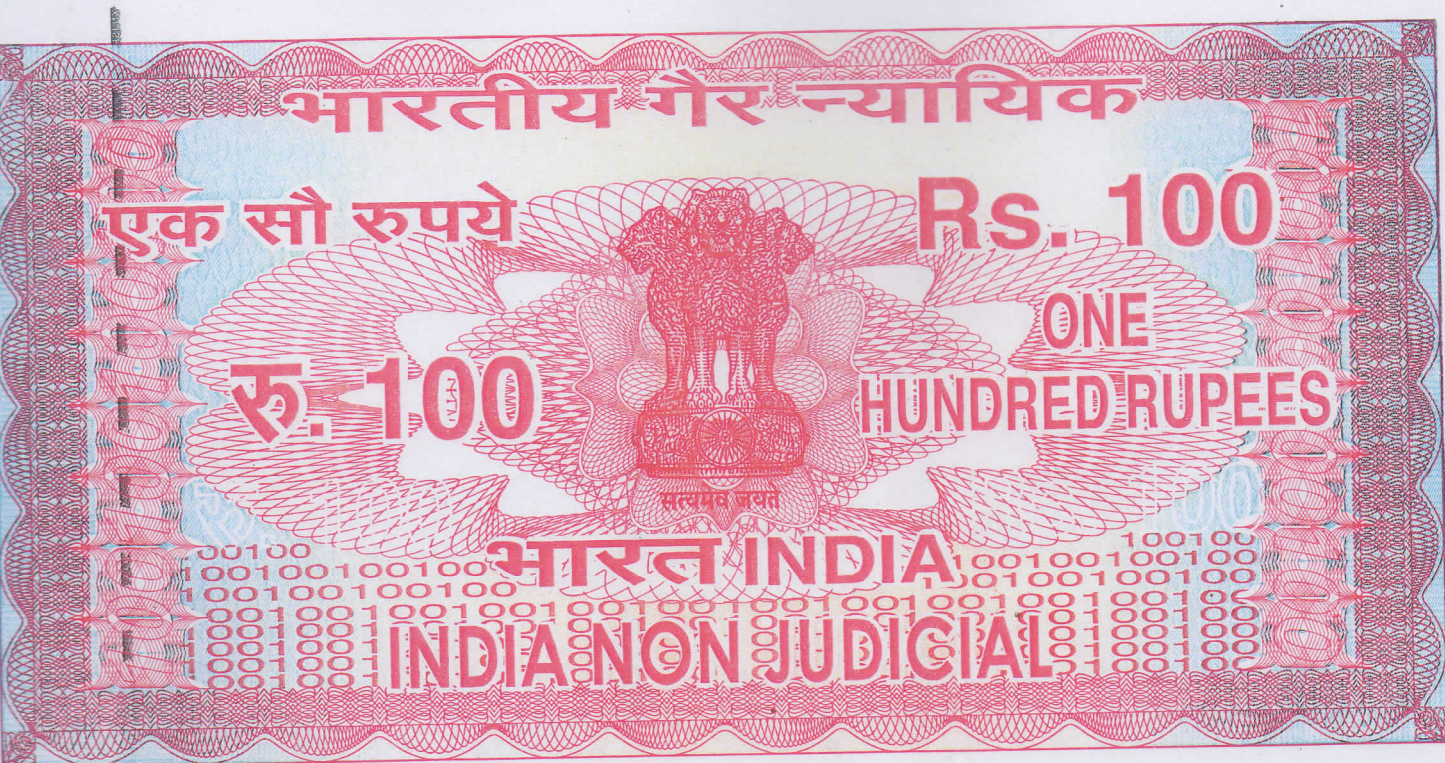


**Plate -12**

**Concrete Road**



**ANNEXURE 1**  
**AFFIDAVIT FOR ECO-  
RESTORATION**



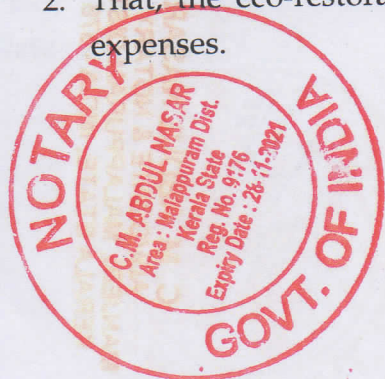
കേരളം കേരल KERALA

CD 295261

AFFIDAVIT

I, Mr. V.Moideen, Managing Partner & Authorized signatory of V.K.M Stone Crusher having correspondence office at Cherur(p.o), Kannamangalam, Vengara, Malappuram district, Kerala, do hereby affirm and confirm as follows:-

1. That, my quarry project is situated at survey No 103/2 of Kannamangalam Village, Thirurangadi Taluk, Malappuram District, Kerala, 676508.
2. That, the eco-restoration including the mine closure plan will be done at my expenses.



DEPONENT

No: 9676  
Date: 28/7/19  
Value: 100  
Amsom: Manjeri  
Taluk: Manjeri  
Name: V.K.M Stone Crusher V  
Addi. Stamp Vendor, Manjeri  
C.J. Mary

*Manjeri*  
25/7/19  
C. M. ABDUL NASAR  
ADVOCATE & NOTARY  
MANJERI, MALAPPURAM DISTRICT  
KERALA STATE, INDIA - 676 121





*Handwritten signature and date: C.M. Abd. Nasar 21/11/19*

**C. M. ABDUL NASAR**  
**ADVOCATE & NOTARY**  
**MANJERI, MALAPPURAM DISTRICT**  
**KERALA STATE, INDIA - 676 121**

भारतीय गैर न्यायिक

एक सौ रुपये

Rs. 100

₹. 100

ONE HUNDRED RUPEES



भारत INDIA

INDIAN NON JUDICIAL

കേരളം കേരल KERALA

CD 295262

ANNEXURE 2

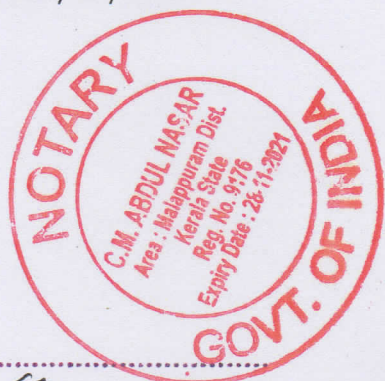
Verification:

Verified that my above statements are true to the best of my knowledge and belief and no material has been concealed therein.

DEPONENT

Place: Malappuram

Date : 24/07/2019



*Emam*  
25/7/19

C. M. ABDUL NASAR  
ADVOCATE & NOTARY  
MANJERI, MALAPPURAM DISTRICT  
KERALA STATE, INDIA - 676 121



No: 9677  
Date: 23-2-19  
Value: 100  
Witness: [Signature]  
Name: [Signature]  
Addl. Stamp Vendor, Manjeri  
J. Mary [Signature]

**ANNEXURE 2**  
**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

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

CSEZ पी.ओ.कक्कानाड कोच्ची | CSEZ PO Kakkanad Dist. Ernakulam Ernakulam 682037

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

ई-मेल Email: dycceernakulam@explosives.gov.in

संख्या (No.): E/SC/KL/22/301(E11744)

दिनांक (Date): 30/01/2019

सेवा में | To,

SRI.V.MOIDEEN,

V.K.M.STONE CRUSHER, P.O. CHEPUR, KONDOTTY, KANNAMANGALAM, MALAPPURAM DISTRICT, KERALA.,

Town/Village - Chepur

District-MALAPPURAM, State-Kerala, Pincode - 673638

विषय : Survey No(s).103/2, ग्राम KANNAMANGALAM (V), THIRUVANGADI TK., जिला MALAPPURAM, राज्य Kerala में विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुज्ञप्ति सं E/SC/KL/22/301(E11744) के नवीनीकरण संदर्भ में।

Subject: Possession for Use of of Explosives from magazine situated at Survey No(s):103/2, KANNAMANGALAM (V), THIRUVANGADI TK., Dist. MALAPPURAM, Kerala -Licence No.: E/SC/KL/22/301(E11744) granted in Form LE-3 of Explosives Rules, 2008 - Renewal regarding

महोदय | Sir,

आपका उपर्युक्त विषय पर पत्र संख्या Nil दिनांक 29/01/2019 का संदर्भ ग्रहण करें। विस्फोटक नियम, 2008 के अंतर्गत प्ररूप LE-3 में जारी अनुज्ञप्ति दिनांक 31/3/2024 तक नवीनीकृत कर इस पत्र के साथ भेजी जा रही है।  
Reference to your letter No.: Nil dated: 29/01/2019, the subject licence duly renewed upto 31/3/2024 and issued in Form LE-3 of Explosives Rules, 2008 is forwarded herewith.

अनुज्ञप्ति के आगामी नवीकरण हेतु कृपया निम्नलिखित दस्तावेज दिनांक 31/03/2024 से पहले इस कार्यालय को भेजे जाएं।  
For further renewal of licence, please submit the following documents so as to reach this office on or before 31/3/2024.

- प्ररूप आरई-1 में विधिवत पूर्ण एवं हस्ताक्षरित आवेदन।  
Application in Form RE-1 duly filled in and signed.
- एक से पाँच वर्ष के अनुज्ञप्ति शुल्क का बैंक ड्राफ्ट। बैंक ड्राफ्ट किसी भी राष्ट्रीयकृत बैंक के नाम आहरित, संयुक्त मुख्य विस्फोटक नियंत्रक, चेन्नई के पक्ष में चेन्नई में देय हों।  
Licence fees for one to five years in the form of demand draft drawn on any Nationalized Bank in favour of Jt. Chief Controller of Explosives, Chennai payable at Chennai.
- अनुमोदित प्लान के साथ मूल अनुज्ञप्ति।  
Original licence with approved plan.
- कृपया इस संबंध में विस्फोटक नियम, 2008 के नियम 112 का भी संदर्भ ग्रहण करें।  
In this connection, please also refer to Rule 112 of Explosives Rules, 2008.
- विस्फोटकों के क्रय हेतु आरई-11 में मांगपत्र (इंडेंट) आपूर्तिकर्ता को दिया जाए और उसी की एक प्रति इस कार्यालय को भेजी जाए (आतिशबाजी गोदाम के लिए लागू नहीं)।  
Indent for purchase of explosives shall be placed in RE-11 with the supplier and copy of the same shall be sent to this office.(Not applicable for fireworks store house)
- कृपया विस्फोटकों की त्रैमासिक विवरणी हर तिमाही के अंत में आरई-7 में प्रस्तुत की जाएं। विवरणी इस कार्यालय के कार्यालय में आगामी तिमाही के 10 तारीख से पहले पहुंच जानी चाहिए (आतिशबाजी गोदाम के लिए लागू नहीं)। Please submit quarterly returns of explosives in RE-7 at the end of every quarter so as to reach this office by 10th of the succeeding quarter.(Not applicable for fireworks store house)
- सभी ब्लास्टिंग आपरेशन एक सक्षम द्वारा की जाएगी जो उपरोक्त नियमों के तहत एक वैध शॉट फायर प्रमाणपत्र धारक हो। हालांकि, खान अधिनियम 1952 के अधीन आने वाले खानों में ब्लास्टिंग आपरेशन करने वाले ब्लास्टर की योग्यता उसी अधिनियम से निर्धारित हो।  
All blasting operations shall be carried out by a competent person holding a valid shot firer's permit granted under above rules. However, blasting operations in mines coming under the purview of the Mines Act 1952, the blaster shall have qualifications prescribed in the regulations framed under the said Act.

भवदीय | Your's faithfully

(आर.वेणुगोपाल | Dr. R.Venugopal)

उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives

कोच्ची मुसुक्कानाड

Deputy Chief Controller of Explosives

प्रतिलिपि प्रेषित | Copy Forwarded to:

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

Page 40

उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives

कोच्ची | Ernakulam



## 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।)

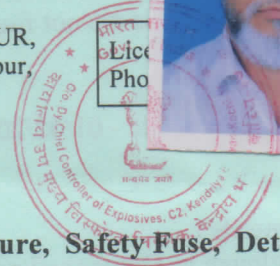
(See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008)

(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/22/301(E11744)

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



1. Licence is hereby granted to

**SRI.V.MOIDEEN (अधिभोगी / Occupier : V MOIDEEN), V.K.M.STONE CRUSHER, P.O. CHEPUR, KONDOTTY, KANNAMANGALAM, MALAPPURAM DISTRICT, KERALA., Town/Village - Chepur, District-MALAPPURAM, State-Kerala, Pincode - 673638**

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, 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	75 Kg.
2.	Safety Fuse	6,1	0	1500 Mtrs
3.	Detonators	6,3	0	1000 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 अनुज्ञप्ति परिसर की पुष्टि होती रेखाचित्र क्र. (Drawing No.) E/SC/KL/22/301 है।

The licensed premises shall conform to the following drawing(s) : दिनांक (Dated) 01/02/2002

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

Survey No(s). 103/2, ग्राम (Town/Village) : **KANNAMANGALAM (V), THERUVANGADI TK,**

जिला (District) **MALAPPURAM** राज्य (State) **Kerala** पिनकोड (Pincode)

दूरभाष (Phone) ई. मेल (E-Mail) **VEVGARA** फैक्स (Fax)

7. अनुज्ञप्ति परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं।

: **TWO MINI EXPLOSIVE MAGZINE.**

The licensed premises consist of following facilities.

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 द्वारारा 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 2003 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2003.

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 अनुज्ञप्ति परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंज्ञित 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.

Sd/-

तारीख | The Date - 01/02/2002

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

**Amendments :**

- Amendment in Drawings/Facilities/Premises dated : 22/01/2014
- Amendment in Drawings/Facilities/Premises dated : 22/01/2014

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
30/01/2019	31/03/2024	Dy. Chief Controller of Explosives, Ernakulam उप मुख्य विस्फोटक नियंत्रक Deputy Chief Controller of Explosives एरणाकुलम Ernakulam

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

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


Safety distances required to be kept clear around magazine for high explosives or fire works or factory licence number E/SC/KL/22/301(E11744) in form LE-3 granted to SRI.V.MOIDEEN, V.K.M.STONE CRUSHER, P.O. CHEPUR, KONDOTTY, KANNAMANGALAM, MALAPPURAM DISTRICT, KERALA., Kerala-

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

The Date : 01/02/2002

**Amendments :**


- Amendment in Drawings/Facilities/Premises dated : 22/01/2014
- Amendment in Drawings/Facilities/Premises dated : 22/01/2014

  
 For Joint Chief Controller of Explosives  
 South Circle, Chennai  
 उप मुख्य विस्फोटक नियंत्रक  
 Deputy Chief Controller of Explosives  
 एरणाकुलम Ernakulam

20. विस्फोटकों के खाली पैकजों को शीघ्रतिशीघ्र वहां से हटा दिया जाएगा और नष्ट कर दिया जाएगा ।  
Empty packages of the explosives shall be removed at the earliest and destroyed. \
21. अनुज्ञापितारी और कर्मचारियों को परिसर के भीतर आपातकाल के दौरान की जाने वाली प्रक्रियाओं से अवगत होना चाहिए ।  
The licensee and the employee shall be conversant with procedure to be taken during the emergency within the premises.
22. निरीक्षण या नमूना अधिकारी को सभी युक्तियुक्त समयों पर अनुज्ञात परिसर में अबाध रूप से पहुंचने दिया जाएगा और यह सुनिश्चित करने के लिए कि अधिनियम और इन नियमों के उपबंधों और सुरक्षा स्थितियों को सम्यक्तः अनुपालन किया जा रहा है, अधिकारी को प्रत्येक सुविधा प्रदान की जाएगी ।  
Free access to the licensed premises shall be given at all reasonable times to any inspecting or sampling officer and every facility shall be afforded to the officer for ascertaining that the provisions of the Act and these rules and the safety conditions are duly observed.
23. यदि अनुज्ञापन प्राधिकारी या विस्फोटक नियंत्रक अनुज्ञापितारक को अनुज्ञात परिसरों या मशीनरी, दूल या उपकरण में ऐसी कोई मरम्मत या परिवर्धन या परिवर्तन करने या सिफारिशों को लागू करने को लिखित रूप में सूचित करता है जो परिसर के अंदर या बाहर या व्यक्तियों की सुरक्षा के लिए आवश्यक है, अनुज्ञापितारक सिफारिशों को निष्पादित करेगा और विनिर्दिष्ट अवधि के भीतर अनुपालन रिपोर्ट ऐसे प्राधिकारी को देगा ।  
If the licensing authority or a Controller of Explosives informs in writing, the holder of the licence to execute any repairs or to make any additions or alterations to the licensed premises or machinery, tools or apparatus or carry out recommendations, which are in the opinion of such authority may pose unacceptable risk and so necessary for the safety of either on-site or off-site of the premises or persons, the holder of the license shall execute the recommendations and report compliance within the period specified by such authority.
24. अनुज्ञापितारी मैगजीन में रखने और बिक्री के लिए प्राधिकृत विस्फोटक सूची में उल्लिखित अनुज्ञात फैक्टरी या कंपनी से प्राधिकृत विस्फोटक / आतिशबाजी या सुरक्षा पलीते खरीदेगा ।  
The licensee shall purchase authorised explosives/ fireworks or safety fuse as mentioned in the list authorised explosives from a licensed factory or company for possession and sale from the magazine.
25. निम्न से अधिक ध्वनि स्तर उत्पादित करने वाले आतिशबाजियों पटाखों की बिक्री और रखने के लिए -  
(क) जो फटने की जगह से चार मीटर की दूरी पर है, 125 डी.बी.(ए1) या 145 डी.बी.(सी)पी.के. प्रतिबंधित होंगे;  
(ख) श्रृंखला (जुड़े हुए पटाख) को गठन करने वाले व्यक्तिगत पटाखों के लिए उपर्युक्त उल्लिखित सीमा 5 लॉग.10(एन) डी.बी. (सी) पी.के.प्रतिबंधित होंगे ;  
The possession and sale of fire-crackers generating noise level exceeding;  
a) 125 dB(AI) or 145 dB(C)pk at 4 meters distance from the point of bursting shall be prohibited;  
b) For individual fire-cracker constituting the series (joined fire-crackers), the above mentioned limit be reduced by 5 log<sub>10</sub> (N) dB, where N = number of crackers joined together.
26. आग या विस्फोट व्दारा दुर्घटना या नुकसान पटाखों की कमी या चोरी, तुरंत पास के पुलिस थाने और अनुज्ञापन प्राधिकारी और अनुज्ञापन प्राधिकारी के स्थानीय कार्यालय को रिपोर्ट की जाएगी ।  
Accidents by fire or explosion and losses, shortage or theft of explosives shall be immediately reported to the nearest police station and the licensing authority and local office of the licensing authority.

#### अतिरिक्त शर्तें / Additional Conditions :

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

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

मैगजीन में वर्ग 1,2,3,4,5,6, और 7 के विस्फोटकों को बिक्री या प्रयोग हेतु रखने के लिए प्ररूप एल.ई. 3 [अनुच्छेद 3 (ख) से (ग)] में मुख्य विस्फोटक नियंत्रक या विस्फोटक नियंत्रक द्वारा प्रदान किए जाने वाले अनुज्ञप्ति सं. E/SC/KL/22/301(E11744) की शर्तें निम्नलिखित हैं।  
The following are the conditions of licence number E/SC/KL/22/301(E11744) to possess for sale or use, explosives of Class 1,2,3, 4, 5, 6 and 7 in a magazine in Form LE-3 (articles 3(b) to (c)) granted by Chief controller of Explosives or Controller of Explosives.

- परिसर में किसी भी समय विस्फोटकों की मात्रा अनुज्ञापन योग्य सामर्थ्य से अधिक नहीं होगी।  
The quantity of explosives on the premises at any one time shall not exceed the licensable capacity.
- विस्फोटकों के भंडारण के लिए प्रयुक्त होने वाली मैगजीन अनुसूची III और अनुज्ञप्ति के उपाबंध में विनिर्दिष्ट सुरक्षा दूरी बनाए रखना होगा।  
The magazine used for storage of explosives shall maintain safety distance specified in Schedule III and annexure to the licence.
- मैगजीन का प्रयोग उन सभी विस्फोटकों के, जो इस अनुज्ञप्ति में विनिर्दिष्ट हैं, रखे जाने के लिए और ऐसे रखे जाने से संबन्ध आधान या औजार या उपकरणों के रखे जाने के लिए ही किया जाएगा; अन्यथा नहीं।  
The magazine shall be used only for keeping all explosives specified in this licence and of receptacles for, or tools or implements for work connected with the keeping of such explosives.
- पैकजों को खोलने का कार्य और विस्फोटकों को तौलने तथा पैक करने का कार्य मैगजीन में नहीं किया जाएगा।  
The opening of packages and the weighing and packing of explosives shall not be carried on in the magazine.
- दो या दो से अधिक वर्णन के विस्फोटकों को, जिन्हें मैगजीन में रखे जाने की अनुज्ञा दी जा सकती है, मैगजीन में तभी रखे जाएंगे जब उनमें से प्रत्येक को, ऐसे पदार्थ या स्वरूप का कोई मध्यवर्ती विभाजक लगाकर या उनके बीच ऐसा मध्यवर्ती स्थान छोड़कर, परस्पर पृथक कर दिया जाए कि किसी वजह से विस्फोटक में लगने वाली आग या होने वाला विस्फोट किसी अन्य वर्णन के विस्फोटक तक न पहुंच सके : परंतु -  
(घ) 2 (नाइट्रेट मिश्रण), वर्ग 3 (नाइट्रो योगिक) के विभिन्न विस्फोटक, वर्ग 6 प्रथम प्रभाग के अंतर्गत आने वाले सुरक्षा पत्तीते और वर्ग 6 प्रभाग 2 के अंतर्गत आनेवाले विस्फोटक प्रेरक पत्तीते, जिनमें कोई खुला लोहा या इस्पात नहीं है, एक दूसरे के साथ बिना किसी मध्यवर्ती विभाजक या स्थायन के रखे जा सकते हैं।  
(ङ) वर्ग 6 प्रभाग 3 के अंतर्गत आनेवाले विस्फोटक प्रेरक अलग रखे जाएंगे।  
(च) वर्ग 1 के अंतर्गत आने वाले बारूद को अलग रखा जाएगा।  
Two or more description or explosives which may be permitted to be kept in the magazine shall be kept only if they are separated from each other by an intervening partition of such substance or character, or by such intervening space, as will effectually prevent explosion or fire in the one communicating with the other; Provided that—  
(d) the various explosives of Class 2 (nitrate-mixture), Class 3 (nitro-compound), safety fuses belonging to Class 6 Division 1 and detonating fuses belonging to Class 6 Division 2 as do not contain any exposed iron or steel, may be kept with each other without any intervening partition or space ;  
(e) Detonators belonging to Class 6 Division 3 shall be kept separately.  
(f) Gun powder belonging to Class 1 shall be kept separately.
- वर्ग 3 (नाइट्रो योगिक) के विस्फोटकों को, उनके विनिर्माण की तारीख से एक वर्ष बीत जाने के पश्चात सिवाय अनुज्ञापन प्राधिकारी की विशेष मंजूरी के मैगजीन में नहीं रखा जाएगा।  
Explosives of Class 3 (nitro compound) shall not be kept in the magazine after the expiration of one year from the date of their manufacture except with the special sanction of licensing authority.
- वर्ग 3 (नाइट्रो योगिक) के विस्फोटकों को, उनके विनिर्माण की तारीख से एक वर्ष बीत जाने के पश्चात मैगजीन में तभी रखा जाएगा जब कि किसी विस्फोटक नियंत्रक ने इसके लिए विशेष मंजूरी दे दी हो।  
(i) जब ऐसी मंजूरी दे दी गई हो तो प्रत्येक निरीक्षण पर किसी विस्फोटक नियंत्रक से ऐसा लिखित प्रमाणपत्र अभिप्रास कर लिया जाए जिसमें दी गई मंजूरी के अंतर्गत आनेवाली अवधि दर्शित की गई हो और ऐसे प्रमाणपत्र के अनुज्ञप्तिधारी अपने पास रखेगा और मांग की जाने पर प्रस्तुत करेगा।  
(ii) जब कोई विस्फोटक मानक शुद्धता का न रह जाने के कारण या द्रवणीकरण या नाइट्रो ग्लीअसरीन या द्रव नाइट्रो योगिक के निकल जाने के चिन्ह प्रकट होने के कारण मैगजीन में भण्डारित किए जाने के उपयुक्त नहीं रह जाता है तो अनुज्ञप्तिधारी अपने ही व्यय पर ऐसे विस्फोटक के निपटारे के लिए ऐसे निदेशों का अनुपालन करेगा जो मुख्य नियंत्रक या विस्फोटक नियंत्रक जारी करें।  
Explosives of Class 3 (nitro compound) shall not be kept in the magazine after the expiration of one year from the date of their manufacture except with the special sanction of the Controller of Explosives.  
(i) When such sanction has been given, a written certificate showing the period covered by the sanction shall be obtained from the Controller of Explosives at each inspection, and shall be kept by the licensee and produced on demand.  
(ii) When an explosive owing to its being no longer of standard purity or owing to signs of liquefaction or of exuded nitro-glycerin or liquid nitro-glycerin or liquid nitrocompound is no longer fit for storage in the magazine or store house the licensee shall comply, at his own expense, with such directions as to its disposal as the Chief Controller or Controller of Explosives may issue.
- मैगजीन के भीतरी भाग या उसमें लगी बेंचो, शैल्फों और उसकी फिटिंग का इस प्रकार सन्निर्माण किया जाएगा या उन्हें इस प्रकार अंतरित या अवतरित किया जाएगा कि विस्फोटक का किसी लोहे या इस्पात के साथ संपर्क रोका जा सके। भीतरी भाग में लगी बेंचो, शैल्फें और फिटिंग यथासाध्य ग्रिट से मुक्त एवं साफ रखे जाएंगे तथा ऐसे विस्फोटक, जो जल से खतरनाक रूप में प्रभावित हो सकते हैं, इस बाबत सम्यक सावधानी बरती जाएगी कि वहां कोई जल मौजूद न रहे : परंतु किसी लोहे या इस्पात के खुले होने के विरुद्ध सावधानी से संबंधित इस शर्त का वह भाग ऐसे किसी भवन में बाध्यकर नहीं होगा जिसमें वर्ग 6 (गोला बारूद) के प्रथम के विस्फोटक से भिन्न कोई विस्फोटक रखा गया है।  
The interior of the magazine and the benches, shelves and fittings therein shall be so constructed or so lined or covered as to prevent the exposure of any iron or steel contact with the explosives. Such interior, benches, shelves and fittings shall so far as is reasonably

practicable, be kept free from grit and shall otherwise be clean; and in the case of any explosives liable to be dangerously affected by water, due precautions shall be taken to exclude water there from;

Provided that so much of this condition as relates to precautions against the exposure of any iron or steel shall not be obligatory in a building in which no explosive other than explosive of the 1st Division 6th (Ammunition) Class is kept.

9. यदि तडित चालक का परीक्षण विस्फोटक नियंत्रक करता है तो अनुज्ञापिकाएँ ऐसे परीक्षण के लिए विहित फीस का संदाय करेगा यदि परीक्षण असमाधानकारी साबित होता है तो उतनी ही फीस अनुज्ञापिकाएँ द्वारा पश्चात्कर्ता प्रत्येक परीक्षण के लिए तब तक दी जाती रहेगी जब तक कि परीक्षण अधिकारी तडित चालक को समाधानप्रद घोषित नहीं कर देता :  
परंतु किसी एक परीक्षण के लिए देय फीस किसी एक दिन के दौरान किसी चालक के किए गए सभी परीक्षणों के लिए प्रभार्य होगा :  
परंतु यह और कि यदि दो या अधिक तडित चालक एक ही मैगजीन से संबद्ध हैं तो ऐसे सभी चालकों के परीक्षण के लिए फीस ऐसी किसी फीस से अधिक नहीं होगी जो किसी एक तडित चालक के परीक्षण के लिए हर स्थिति में विहित की गई है ।

If the lighting conductor is tested by the Controller of Explosives, the licensee shall pay the fees prescribed for test. In the even of the test proving unsatisfactory, the same fees shall be payable by the licensee for each subsequent test until the lighting conductor is passed by the testing officer as satisfactory:

Provided that the fees payable for a single test shall be charged for all tests made on a conductor during any one day :

Provided further that where two or more lighting conductors are attached to one and the same magazine, the fee for the testing of all such conductors shall not exceed the fee prescribed in this condition for testing a single lighting conductor.

10. उपयुक्त तथा जेब रहित कार्यकरण वस्त्रों , उपयुक्त जूतों के प्रयोग द्वारा तथा तलाशी लेकर या अन्यथा अथवा ऐसे किन्हीं साधनों द्वारा इस बाबत सम्यक उपबंध किया जाएगा कि फैक्ट्री परिसर में अग्नि, दियासलाई अथवा ऐसी कोई वस्तुएं या पदार्थ, जिससे विस्फोट हो सकता है या आग लग सकती हो, किन्तु इस शर्त के कारण ऐसी संरचना, स्थिति या स्वरूप में किसी कृत्रिम बत्ती का प्रवेश वर्जित नहीं है जिससे आग लगने या विस्फोट होने का खतरा न हो :  
परंतु इस शर्त का वह भाग, जो लोहे या इस्पात के अपवर्जन को लागू होता है, ऐसे किसी भवन के संबंध में बाध्य कर नहीं होगा जिससे भिन्न कोई विस्फोटक नहीं रखा गया है ।

Due provisions shall be made, by the use of suitable working clothes without pockets, suitable shoes and by searching or otherwise or by such means, for preventing the introduction into danger area of the factory premises of fire, Lucifer matches or any substance or article likely to cause explosion or fire, but this condition shall not prevent the introduction of an artificial light of such construction, position or character as not to cause any danger of fire or explosion:

Provided that so much of this condition as applies to the exclusion of iron or steel, shall not be obligatory in a building in which no explosive other than an explosive of the 1st Division of the 6th (Ammunition) Class is kept.

11. अनुज्ञापिकाएँ प्रार.ई.-3 और आर.ई.-4 या आर.ई.-5, जैसी स्थिति हो, में सभी विस्फोटकों का अभिलेख और लेखा रखेगा और विस्फोटक नियम, 2008 के अधीन प्राधिकृत किसी भी अधिकारी के समक्ष उसके द्वारा ऐसा करने की मांग की जाने पर स्टॉक पुस्तक और अभिलेख प्रस्तुत करेगा । स्टॉक पुस्तक विहित प्रोफार्मा में पृष्ठ संख्यांकित होगी ।  
The licensee shall keep records and accounts of all explosives in Forms RE-3 and RE-4 or RE-5, as the case may be, and exhibit the stock books and records to any of the officers authorised under the Explosives Rules, 2008 whenever such officer may call upon him to do so. The stock books in the prescribed proforma shall be page numbered.

12. परिसरों में कोई परिवर्तन या तबदीली अनुज्ञापन प्राधिकारी के पूर्वानुमोदन बिना नहीं की जाएगी और अनुज्ञापिकाएँ ऐसी किसी शर्त का अनुपालन करेगा जो इस निमित्त अनुज्ञापन प्राधिकारी विनिर्दिष्ट करें ।  
No changes or alterations shall be carried out to the premises without prior approval of the licensing authority and the licensee shall comply with any condition that may be specified by the licensing authority in this behalf.

13. मैगजीन सभी समयों पर अच्छी मरम्मत की स्थिति में बनाई रखी जाएगी (या अच्छी हालत में बनाई रखी जाएगी) । यदि किसी कारणवश किसी विस्फोटक के भण्डारण के लिए मैगजीन अनुपयुक्त हो जाती है तो अनुज्ञापिकाएँ इस बात की सूचना अनुज्ञापन प्राधिकारी को तुरंत देगा ।

Magazine shall at all times be kept in state of good repair (or maintained in good condition). The licensee shall report to licensing authority forthwith, if the magazine becomes unfit for storage of any explosives for any reason whatsoever.

The licensee of the magazine shall submit quarterly return as per sub-rules (3) and (4) of rule 24 of these rules.

14. यदि सुरक्षा दूरी का कोई अधिक्रमण होता है तो उसकी सूचना अनुज्ञापन प्राधिकारी को आवश्यक सलाह और कार्यवाही के लिए तुरंत दी जाएगी ।

Any encroachment of the safety distance shall be immediately communicated to the licensing authority for necessary advice and action.

15. यदि कोई विस्फोटक विनष्ट हुआ अथवा अनुपयोगी जाया जाता है तो उसकी सूचना अनुज्ञापन प्राधिकारी को, सलाह प्राप्त करने के लिए, तुरंत दी जाएगी ।

The licensing authority shall be immediately informed for advice if any explosive is found deteriorated or unserviceable.

16. विस्फोटकों के पैकेटों के चट्टे इस प्रकार लगाए जाएंगे कि कम से कम एक व्यक्ति भण्डार किए गए सभी पैकेटों की हालत की जांच करने और प्रत्येक पैकेज की विनिर्माण विशिष्टियों को पढ़ने के लिए उनके बीच से होकर आ जा सके ।

The explosive packages shall be stocked in such a way so as to allow movement of at least one person to check the condition of all packages stored and to read the manufacture particulars of each package.

The resistance of the lightning conductor to earth shall be as low as possible and in no case be more than 10 ohms.

17. मैगजीन के चारों ओर 15 मीटर की दूरी के अंतर्गत कोई शुल्क घास या झाड़ी या ज्वलनशील सामग्री नहीं रहने दी जाएगी ।

A distance of 15 meters surrounding the magazine or store house shall be kept clear of dried grass or bush or flammable materials.

18. विस्फोटकों के प्रत्येक पैकेट की, जब उसे मैगजीन के भीतर लिया जा रहा हो, ठीक दशा जानने के लिए परीक्षा की जाएगी ।

Every package of explosive at the time of bringing inside the magazine shall be examined for its sound condition.

19. किसी मैगजीन / भंडारगृह में किसी एक समय में चार व्यक्तियों से अधिक को नहीं रहने दिया जाएगा ।

Not more than 4 persons shall be allowed inside the magazine or store house at any one time.

उप मुख्य विस्फोटक नियंत्रक  
Deputy Chief Controller of Explosives  
एरणाकुलम Ernakulam

**ANNEXURE 3**  
**POLLUTION**  
**CERTIFICATE**

**FILE NO : 6293214**

**Date of issue : 18/12/2017**



**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. :6293214**

**Dated:16-12-2017**

**TO**

**M/s QUARRY OF V.K.M STONE CRUSHER**

**Kannamangalam , Cherur, Vengara**

**Consent No. :PCB/CO/EXP/159/17**

**Valid Upto :30/11/2022**



## 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>	30/11/2022
2	Name and Address of the establishment	QUARRY OF V.K.M STONE CRUSHER KANNAMANGALAM , CHERUR, VENGARA 676508
3	Communication	Telephone :-9526600900 Fax :- E-mail:alimonvkm@gmail.com
4	Occupier Details	V. Moideen Veerseri, Chullipara P.O, Valakkulam , Malappuram
5	Local Body	Kannamangalam Grama Panchayat
6	Survey Number	103/2
7	Village	Kannamangalam
8	Taluk	THIRURANGADI
9	District	MALAPPURAM
10	Capital Investment(Rs in Lakhs)	45.0/-
11	Scale	Small
12	Category	RED
13	Annual fee(Rs)	9600/-
	Total Fee remitted(Rs)	50400/-
14	<b>RAW MATERIAL</b>	<b>PRODUCTS</b>
	GRANITE BUILDING STONE @150 Metric Tonnes/DAY	BLASTED RUBBLES @150 Metric Tonnes/DAY (Quarrying in 1.5195 hectares of land in survey no. 103/2 of KANNAMANGALAM Village, THIRURANGADI Taluk, MALAPPURAM Dist)
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: NIL  
 2.3 Effluent generation: -  
 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: -

**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(Nm3/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/Nm3)

**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. The location of the Quarry shall be as per the approved drawing attached.
- 5.2. The PM 2.5 in ambient air at the boundary shall not exceed 60 microgram/m<sup>3</sup>
- 5.3. For renewal of the consent in case of continuance of discharge/operation of the industry, application in the prescribed form shall be submitted through the web portal of the Board foOnline Consent Management & Monitoring System 3 months before the end of validity period. Late application will be accepted only with a fine /late fee as applicable.
- 5.4. Boundary shall be fenced before operation of quarrying activities.
- 5.5. The concentration of PM10 at the boundary shall not exceed 100 microgram/m<sup>3</sup>.
- 5.6. After extraction at the site is completed, the land may be used for rain water harvesting with protective barriers/any other suitable approved purpose or may be reclaimed.
- 5.7. The applicant shall comply with the instructions that the Board may issue from time to time regarding the prevention and control of air, water, land and sound pollution.
- 5.8. No change or alteration of the quarrying area is to be made without the prior written permission of the Board. Any change in the particulars furnished and/or in the identity of the occupier/authorized agent is to be intimated to the Board forthwith.
- 5.9. The ambient air quality measured at 1 m outside the boundary of the premises shall not exceed the ambient air quality applicable to the adjoining area.
- 5.10. The sound level measured at 1 m outside the boundary of the premises shall not exceed the ambient sound level applicable to the adjoining area.
- 5.11. Suitable species of trees and curtain plants shall be planted and maintained within and along the periphery of the premises, forming a green belt to improve the environment.
- 5.12. The consentee shall put up a sign board of size 6x4 ft. near the main entrance of the plant to display the name of the unit and important consent conditions.
- 5.13. Bench cutting method shall be adopted for quarrying.
- 5.14. Blasting shall be done with prior signals in specified time. No. of blasting shall not exceed 10 nos. at a time.
- 5.15. Blasting and quarrying shall be done without causing any nuisance or damage to occupants of adjoining or neighbouring land or building or posing damage to health, life or property.
- 5.16. Mining below normal water table by continuous pumping shall be avoided in summer period (March, April, May) to prevent drinking water shortage in that area.
- 5.17. Noise creating activities such as drilling, blasting, breaking, loading etc shall not be done during night time (6pm-6am).
- 5.18. The applicant shall submit copies of all relevant permits/lease/certificate/licences periodically to this office to ensure the validity of this consent.
- 5.19. The conditions in the Environmental clearance shall be complied.
- 5.20. All other statutory or necessary clearances from other concerned authorities shall be obtained before commencing any quarrying operations.
- 5.21. Minimum distance of 50m shall be maintained from boundary of quarrying area to residential building, places of worships, public buildings, public roads, river, lake, railway lines and bridges.

Reference:-

- 1) Mining & Geology letter No.: 4792/M3/2017 DATED:22.05.2017
- 2) Explosive license No: E/SC/KL/22/301(E11744) DATED:23.01.2014
- 3) Environmental Clearance No.: DEIAA/MAL/EC/029/2017 Dated:01.12.2017.

**VINAYA K S** Digitally signed by VINAYA K S  
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DATE :18/12/2017

SIGNATURE & SEAL OF ISSUING AUTHORITY  
ENVIRONMENTAL  
ENGINEER,DO,MALAPPURAM



To

STOCK FILE

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.



DISTRICT : MALAPPURAM  
 TALUK : TIRURANGADI  
 VILLAGE : KANNAMANGALAM

FIELD NO: 103/2

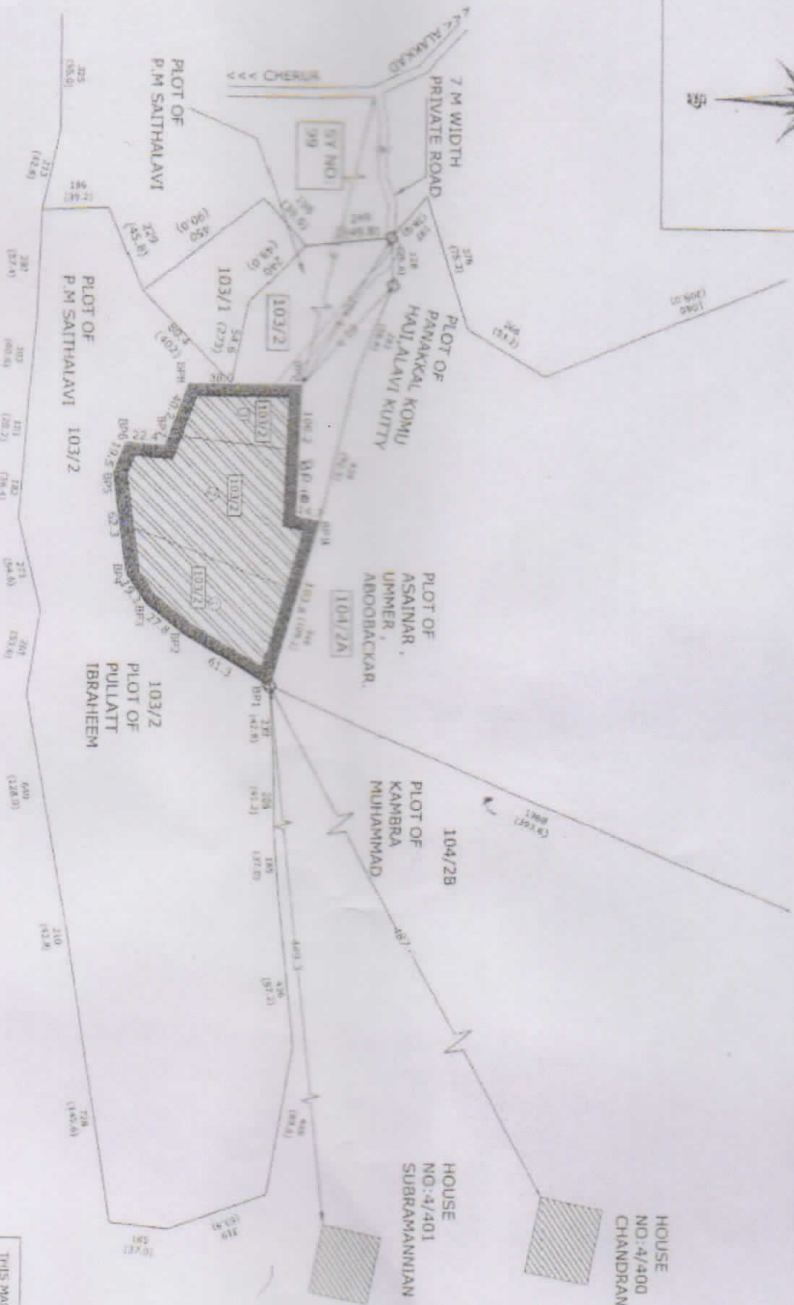
**SURVEY MAP**



**SITE LOCATION PLAN**

**VINAYA K S**  
 ENVIRONMENTAL ENGINEER

Digitally signed by VINAYA K S  
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*Handwritten note:*  
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 to Submit before mining  
 and Geology department

**LEGEND**

	PROPOSED LEASE AREA INCLUDING BUFFER
	7.5 M BUFFER LINE
	HOUSE BUILDING
	DOCKHIRST STRONGHOLD LINE
	PRIVATE ROAD - SERVICE ROAD
	PANJANAMATI ROAD
	ROCK MARK

Scale: 1 CM = 30 M

BOUNDARY

BOUNDARY	LATITUDE(N)	LONGITUDE(E)
BP1	11° 6'1.36"	75°59'58.87"
BP2	11° 5'59.96"	75°59'57.84"
BP3	11° 5'59.41"	75°59'57.28"
BP4	11° 5'59.11"	75°59'56.76"
BP5	11° 5'58.99"	75°59'54.86"
BP6	11° 5'59.23"	75°59'54.29"
BP7	11° 5'59.87"	75°59'54.36"
BP8	11° 6'0.34"	75°59'53.21"
BP9	11° 6'2.22"	75°59'53.30"
BP10	11° 6'2.03"	75°59'55.72"
BP11	11° 6'2.43"	75°59'55.83"

THIS MAP IS ISSUED TO SUBMIT BEFORE MINING & GEOLOGY DEPARTMENT / DISTRICT ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY

**PROPERTY DETAILS**

SR NO	DESCRIPTION	NO	AREA OF LAND	NAME OF OWNER
1	AMBIYA	2879 SQ M	8522 SQ M	SEER AJIO VEKKOOR MOZHISE
2	28592000	9279 SQ M	5173 SQ M	MAJAMANGATHI SAKALAYAN KODARATHI
3	28454	12734	8280 SQ M	PULPAMANGATHI SAKALAYAN KODARATHI
TOTAL AREA		22014 SQ M	12595 SQ M	
WRINGING AREA		1254 SQ M		
METERS AREA		81660 SQ M		
PROPOSED LEASE AREA		7158 SQ M		

**ANNEXURE 4**  
**PANCHAYATH LICENSE**



ലൈസൻസ് നമ്പർ : ബി2-1017/2020-21 - 1

തീയതി : 01/04/2020

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

### ലൈസൻസ്

ലൈസൻസിയുടെ പേരും മേൽവിലാസവും	വി മൊയ്തീൻ, വികെഎം സ്റ്റോൺക്രഷർ, ചേറൂർ കണ്ണമംഗലം	
സ്ഥാപനത്തിന്റെ പേരും സ്ഥലനാമവും	വികെഎം ക്വാറി	
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	കണ്ണമംഗലം വില്ലേജിലെ റിസ 103/2 നമ്പർ ഭൂമിയിൽ കരിങ്കൽക്വാറി നടത്തുന്നതിന്	
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡ് നമ്പരും	4 /	
ലൈസൻസ് കാലയളവ്	01-04-2020 മുതൽ 30-11-2022 വരെ	
ഈടാക്കിയ ലൈസൻസ് ഫീസ്	30,000/- രൂപ	രസീത് നമ്പർ 119320102399 തീയതി 27-02-2020
	തൊഴിൽക്കരം	1250 + 1250 Rt.No.119320102399 Dt : 27-02-2020
ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരാക്ഷേപപത്രങ്ങളുടെ വിശദാംശങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാരസ്ഥാനം)	<ol style="list-style-type: none"> <li>1. മലിനീകരണനിയന്ത്രണ ബോർഡിൽനിന്നുള്ള അനുമതി ... PCB/CO/EXP/159/17 ... 18-12-2017</li> <li>2. അഗ്നിസുരക്ഷാവകുപ്പിൽനിന്നുള്ള നിരാക്ഷേപപത്രം ... D-11051/17 ... 28-12-2017</li> <li>3. പ്ലാസ്റ്റിക് നിരോധനം, സ്ഥലനാമം എന്നിവ സംബന്ധിച്ച സത്യവാങ്മൂലം</li> <li>4. ജില്ലാ കളക്ടറുടെ / ചീഫ് കൺട്രോളർ ഓഫ് എക്സ്പ്ലോസീവീന്റെ അനുവാദപത്രം</li> <li>5. മൈനീംഗ് &amp; ജിയോളജി വകുപ്പിൽനിന്നുള്ള അനുമതി</li> <li>6. സ്റ്റേറ്റ് എൻവയൺമെന്റ് ഇംപാക്ട് അസസ്മെന്റ് അതോറിറ്റിയുടെ അനുമതി</li> <li>7. പാറ പൊട്ടിക്കുന്ന ആളുടെ വൈദഗ്ധ്യം സംബന്ധിച്ച സാക്ഷ്യപത്രം</li> </ol>	




(ഓഫീസ് മുദ്ര)

Secretary  
 Kannamangalam Panchayath  
 P.O. Kannamangalam - 676 304  
 കണ്ണമംഗലം ഗ്രാമപഞ്ചായത്ത്  
 Ph: 0494-2492000

**ലൈസൻസി താഴെപ്പറയുന്ന വ്യവസ്ഥകൾ അനുസരിക്കേണ്ടതാകുന്നു**

1. കേരള പഞ്ചായത്ത് രാജ് ആക്ടും അതേന്തടർന്നുള്ള ചട്ടങ്ങളും ബൈലോകളും അനുസരിച്ചു പ്രവർത്തിക്കേണ്ടതാകുന്നു.
2. തൊഴിൽസ്ഥലവും അതിലുള്ള സാധനസാമഗ്രികളും പഞ്ചായത്ത് അധികാരികൾക്കോ / സെക്രട്ടറി അധികാരപ്പെടുത്തുന്ന മറ്റ് ഉദ്യോഗസ്ഥർക്കോ പരിശോധിക്കുന്നതിന് ലൈസൻസി വേണ്ട സൗകര്യങ്ങൾ നൽകേണ്ടതും അവർ ആവശ്യപ്പെട്ടാൽ ഈ ലൈസൻസ് കാണിക്കേണ്ടതുമാകുന്നു.
3. ഏതു സ്ഥലത്തിന്റെ കാര്യത്തിൽ ലൈസൻസ് നൽകിയിരിക്കുന്നുവോ ആ സ്ഥലത്ത് എല്ലാവരും കാണത്തക്കവിധത്തിലുള്ള ഒരു ഭാഗത്ത് ലൈസൻസി തന്റെ പേരും ലൈസൻസിന്റെ നമ്പരും ഉദ്ദേശ്യവും കാണിക്കുന്ന ഒരു അടയാളപ്പലക വെച്ചിരിക്കേണ്ടതാണ്.
4. പഞ്ചായത്തിൽനിന്നും അനുവാദം സിദ്ധിച്ച ശേഷമല്ലാതെ തൊഴിൽസ്ഥലം മാറ്റാൻ പാടില്ലാത്തതും തൊഴിൽ നിർത്തുന്ന പക്ഷം വിവരം മുൻകൂട്ടി പഞ്ചായത്തിൽ അറിയിക്കേണ്ടതുമാകുന്നു.
5. തൊഴിൽസ്ഥലവും പരിസരങ്ങളും വൃത്തിയായും സാംക്രമികരോഗാണുക്കൾ ഉണ്ടാകാത്തവിധത്തിലും പൊതുജനോപദ്രവമാകാത്ത വിധത്തിലും വ്യാപാരത്തിനു വെച്ചിട്ടുള്ള ഭക്ഷണപദാർത്ഥങ്ങൾ ഈച്ച, അണുക്കൾ, പൊടി മുതലായവയുടെ ശല്യം ഉണ്ടാകാത്ത വിധത്തിലും സൂക്ഷിക്കേണ്ടതാണ്.
6. ഏതൊരു പ്രവൃത്തിദിവസത്തിന്റെയും ഒടുവിൽ സ്ഥലം വൃത്തിയാക്കേണ്ടതാണ്.
7. ആ സ്ഥലത്തിന്റെയോ പരിസരത്തിന്റെയോ ഏതെങ്കിലും ഭാഗത്ത് വീഴുകയോ നിക്ഷേപിക്കപ്പെടുകയോ ചെയ്യുന്ന ചപ്പുചവറോ മൃഗങ്ങളുടെ അവശിഷ്ടങ്ങളോ മറ്റു പദാർത്ഥമോ ശേഖരിച്ച് സെക്രട്ടറിക്ക് തൃപ്തികരമായ രീതിയിൽ നീക്കം ചെയ്യിക്കേണ്ടതാണ്.
8. ലൈസൻസി ഏതൊരു കെട്ടിടത്തിന്റെയും ചുമരുകളുടെ അകവശത്തിന്റെ ഏതൊരു ഭാഗവും മേൽപ്പറഞ്ഞ പരിസരത്തിലുള്ള തറയും നടപ്പാതയും അവിടെ തെറിച്ചുവീഴാനിടയുള്ള ഏതെങ്കിലും ദ്രാവകമോ, മാലിന്യമോ ചപ്പുചവറോ അസഹ്യവും ഉപദ്രവകരവുമായ ഏതെങ്കിലും പദാർത്ഥമോ അവിടെ ലയിക്കുന്നത് തടയാത്തക്കവിധം എപ്പോഴും നന്നായി കേടുപാടു തീർത്തു നിലനിർത്തേണ്ടതാണ്.
9. ലൈസൻസി മേൽപ്പറഞ്ഞ സ്ഥലത്തോ, പരിസരത്തോ അതോടുചേർന്നുള്ള ഏതൊരു ഓവുചാലും അഴുക്കുജലം കളയുന്നതിനുള്ള ഉപകരണവും എപ്പോഴും നന്നായി കേടുപാടുതീർത്തും വെപ്പിക്കേണ്ടതാണ്.
10. അധിതം ആചരിക്കുന്ന കടകളുടെ ലൈസൻസ് റദ്ദ് ചെയ്യുന്നതാണ്.
11. ഏതെങ്കിലും തരത്തിലുള്ള തപക്ക് രോഗമോ കുഷ്ഠരോഗമോ, വ്രണമോ പകർച്ചവ്യാധികളോ ഉള്ള യാതൊരാളും കച്ചവടം നടത്തുന്നതിന് ഉപയോഗിക്കുന്ന സ്ഥലത്തും പരിസരത്തും പ്രവർത്തിക്കുവാൻ പാടില്ലാത്തതാകുന്നു.
12. 50 മൈക്രോണിൽ കുറവുള്ള പ്ലാസ്റ്റിക്കുകളും മറ്റു നിരോധിത പ്ലാസ്റ്റിക് ഇനങ്ങളും ഉൽപ്പാദിപ്പിക്കുകയോ ശേഖരിക്കുകയോ വിൽക്കുകയോ കൈകാര്യം ചെയ്യുകയോ ചെയ്യാൻ പാടില്ല.
13. സ്ഥാപനത്തിന്റെ ബോർഡിൽ സ്ഥലനാമം മലയാളത്തിലും ഇംഗ്ലീഷിലും രേഖപ്പെടുത്തേണ്ടതാണ്.
14. 20 സീറ്റിൽ കൂടുതലുള്ള എല്ലാ ഹോട്ടലുകൾക്കും റെസ്റ്റോറന്റുകൾക്കും ടോയിലെറ്റ് സൗകര്യം ഏർപ്പെടുത്തേണ്ടതാണ്.
15. നിരോധിത ഉൽപ്പന്നങ്ങളായ പാൻമസാല, ഗുഡ്ക തുടങ്ങിയവ സംഭരിച്ചു വെക്കുവാനോ വിൽക്കുവാനോ പാടില്ല.
16. ബാലവേല അനുവദിക്കുവാൻ പാടില്ല.
17. മുകളിൽ കാണിച്ചിരിക്കുന്ന വ്യവസ്ഥകളുടെ ലംഘനം ഈ ലൈസൻസ് റദ്ദ് ചെയ്യുന്നതിന് കാരണമാകാവുന്നതാണ്.



  
**Secretary**  
 Kannamangalam Panchayath  
 P.O. Kannamangalam - 676 304  
 Malappuram Dist

N.B. ഈ ലൈസൻസ് അവസാനിക്കുന്ന തീയതിക്ക് മൂപ്പതു ദിവസം മുമ്പ് ലൈസൻസ് പുതുക്കുന്നതിനുള്ള അപേക്ഷ സമർപ്പിക്കേണ്ടതാണ്.



**ANNEXURE 5**  
**AFFIDAVIT FOR EC**  
**CONDITIONS**

भारतीय गैर न्यायिक

एक सौ रुपये

Rs. 100

₹. 100

ONE HUNDRED RUPEES

भारत INDIA

INDIAN NON JUDICIAL

കേരളം കേരल KERALA

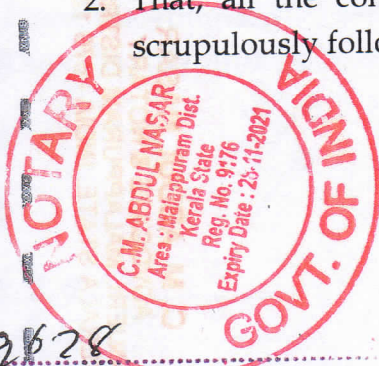
CD 295263

AFFIDAVIT

I, Mr. V.Moideen, Managing Partner & Authorized signatory of V.K.M Stone Crusher having correspondence office at Cherur(p.o), Kannamangalam, Vengara, Malappuram district, Kerala, do hereby affirm and confirm as follows:-

1. That, my quarry project is situated at survey No 103/2 of Kannamangalam Village, Thirurangadi Taluk, Malappuram District, Kerala, 676508.
2. That, all the conditions stipulated in the Environment Clearance would be scrupulously followed.

DEPONENT



*Manam*  
25/7/19

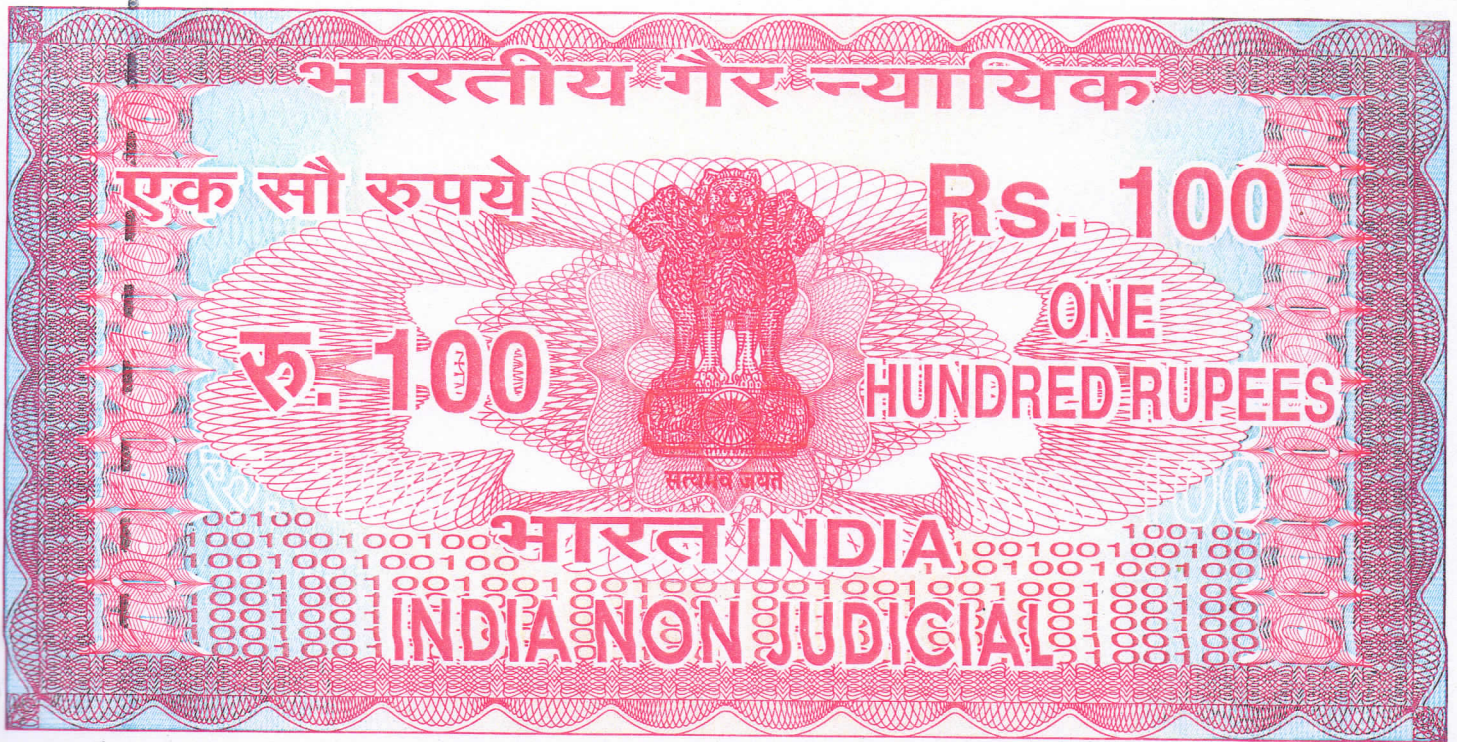
C. M. ABDUL NASAR  
ADVOCATE & NOTARY  
MANJERI, MALAPPURAM DISTRICT  
KERALA STATE, INDIA - 676 121



No: 9678  
 Date: 22-7-19  
 Value: 100  
 Amsom: *Manam*  
 Taluk: *Manjeri*  
 Name: *Mr. V. Moideen* ✓  
 Addl. Stamp Vendor, Manjeri  
 C.J. Mary



GOVT. OF INDIA  
6/11/2022  
C. M. ABDUL NASAR  
ADVOCATE & NOTARY  
MANJERI, MALAPPURAM DISTRICT  
KERALA STATE, INDIA - 676 121

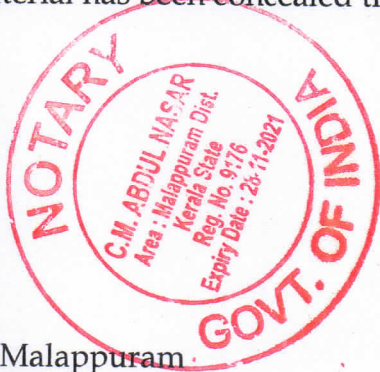


കേരളം केरल KERALA

CD 295264

Verification:

Verified that my above statements are true to the best of my knowledge and belief and no material has been concealed therein.



DEPONENT

Place: Malappuram

Date : 24/07/2019

9629  
2.2.2.19  
100  
[Signature]  
[Signature]  
[Signature]  
Stamp Vendor, Manjeri  
Mary

*Cmnm*  
*25/11/19*  
C. M. ABDUL NASAR  
ADVOCATE & NOTARY  
MANJERI, MALAPPURAM DISTRICT  
KERALA STATE, INDIA - 676 121



**ANNEXURE 6**

**CORPORATE SOCIAL  
RESPONSIBILITY**



**भारतीय स्टेट बैंक**  
**State Bank Of India**

(70344)-TIRURANGADI  
P.B.NO.4  
RAHIM BUILDINGS, THIRURANGADI P.O. 676306  
Tel : 4933 258888 Fax : IFS Code : SBIN0070344 SWIFT :

केंद्र ३ महिने के लिए वैध / VALID FOR 3 MONTHS ONLY

05062020  
D D M M Y Y Y Y

3341 / 100 / BLUE ORDER / 24/Jan/2019  
SESHAASA (D) / CTS-2010

PAY Chief Minister's Distress Relief Fund - CMDRF को या उनके आदेश पर OR ORDER

रुपये RUPEES One lakh Rupees only

अव करे ₹ 100000/-

खा. सं. / A/c No. 57031216740

VALID UPTO ₹ 50 LACS AT NON-HOME BRANCH

CURRENT A/C  
PREFIX :  
1515900001

V. Moidem  
VKM STONE CRUSHER MANAGING PARTNER

MULTI-CITY CHEQUE Payable at Par at All Branches of SBI

⑈908328⑈ 676002927⑈ 000281⑈ 29

കണ്ണമംഗലം പഞ്ചായത്തിൽ നാലാം വാർഡിൽ പ്രവർത്തിച്ചുവരുന്ന വി കെ എം കോറി 2020-2021 വർഷത്തിലെ CSR ഫണ്ട് ചെലവഴിക്കുന്നതിന്റെ ഭാഗമായി SEPTEMBER വരെയുള്ള കാലയളവിൽ ചേറൂർ കൊട്ടേക്കാട് പറമ്പ് നിവാസികൾക്ക് covid ധനസഹായത്തിന് 19000 രൂപ ചെലവഴിച്ചു

സ്ഥലം ചേറൂർ  
Date. 26-04-20

V.K.M. STONE CRUSHER  
KANNAMANGALAM  
P.O. CHEERUR  
VIA VENGARA MALAPPURAM



കണ്ണമംഗലം പഞ്ചായത്തിൽ നാലാം വാർഡിൽ പ്രവർത്തിച്ചുവരുന്ന വി കെ എം കോറി 2020-2021 വർഷത്തിലെ CSR ഫണ്ട് ചെലവഴിക്കുന്നതിന്റെ ഭാഗമായി SEPTEMBER വരെയുള്ള കാലയളവിൽ ചേറൂർ നിവാസികൾക്ക് covid ദുരിതാശ്വാസ കിറ്റ് വിതരണത്തിന് 48600 രൂപ ചെലവഴിച്ചു

സ്ഥലം ചേറൂർ  
Date. 02-06-20

V.K.M. STONE CRUSHER  
KANNAMANGALAM  
P.O. CHERUR  
VIA VENGARA MAAPPURAM



കണ്ണമംഗലം പഞ്ചായത്തിൽ നാലാം വാർഡിൽ പ്രവർത്തിച്ചുവരുന്ന വി കെ എം കോറി 2020-2021 വർഷത്തിലെ CSR ഫണ്ട് ചെലവഴിക്കുന്നതിന്റെ ഭാഗമായി SEPTEMBER വരെയുള്ള കാലയളവിൽ ചേറൂർ ആച്ചു ചാക്കേരി മകളുടെ കല്യാണത്തിന് 8000 രൂപ ചെലവഴിച്ചു

സ്ഥലം ചേറൂർ  
Date. 04-07-20

V.K.M. STONE CRUSHER  
KANNAMANGALAM  
P.O. CHERUR  
VIA VENGARA, MALAPPURAM



കണ്ണമംഗലം പഞ്ചായത്തിൽ നാലാം  
വാർഡിൽ പ്രവർത്തിച്ചുവരുന്ന വി കെ എം  
കോറി 2020-2021 വർഷത്തിലെ CSR  
ഫണ്ട് ചെലവഴിക്കുന്നതിന്റെ ഭാഗമായി  
SEPTEMBER വരെയുള്ള കാലയളവിൽ  
ചേറൂർ നുകുരിയ EK വീടുപണിക്ക് മെറ്റൽ  
കൊടുത്തതിന് 3800 രൂപ ചെലവഴിച്ചു

സ്ഥലം ചേറൂർ  
Date. 04-07-20

V.K.M. STONE CRUSHER  
KANNAMANGALAM  
P.O. CHERUR  
VIA VENGARA, MALAPPURAM



**അലിവ്**  
ചാരിറ്റി സെൽ

REGD. No: 36/12  
C.H. Soudham, Bus Stand, **VENGARA.**  
Malappuram Dt, Kerala - 676 304  
Tel: 0494 2457778  
alivucharity@gmail.com

ജനറാബ് V Km Crashes Manjengara നമ്പർ **7804**

പക്കൽ നിന്ന് തീയതി **10-5-19**

Five thousand Rupees only രൂപ

നന്ദി പൂർവ്വംകിട്ടിബോധിച്ചു.

₹ 5000/-



**അലിവ്**  
ചാരിറ്റി സെൽ

REGD. No: 36/12  
C.H. Soudham, Bus Stand, **VENGARA.**  
Malappuram Dt, Kerala - 676 304  
Tel: 0494 2457778  
alivucharity@gmail.com

ജനറാബ് V.K.M. Manjengara നമ്പർ **7803**

പക്കൽ നിന്ന് തീയതി **2-5-19**

Five thousand Rupees only രൂപ

നന്ദി പൂർവ്വംകിട്ടിബോധിച്ചു.

₹ 5000/-



**MALAPPURAM DISTRICT TRAUMA CARE**

(Regd. Under the S. Act. XXI of 1860 Reg. No. 124/05)  
Room No. 33, Terminal Bus Stand, Pandikkad Road, MANJERI, Ph: 9048 911 100  
www.traumacaremalappuram.com, Email:traumacarempm@gmail.com

No. **954**

Date: 03/09/20

Received with thanks from Sri/Smt. M/s V.K.M. Crashes

Chennu Mathil Kondh

the sum of rupees. Three thousand only

towards.....

₹ 3000/-

Authorized Signatory



**അലിവ്**  
ചാരിറ്റിസെൽ

Reg. No: 36/12, C.H. Suoudham  
Bus Stand, Vengara,  
Malappuram Dist., Kerala, Pin: 676 304  
Phone: 0494 2457778  
email: alivucharity@gmail.com

നമ്പർ: **13066** തീയതി: 16/05/20  
 ജനാബ്: V.K.M Stone Crusher Charus പക്കൽനിന്ന്  
Manjagara  
Five Thousand only. രൂപ



നന്ദിപൂർവ്വം കിട്ടിബോധിച്ചു.

₹ 5000/-

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ചാരിറ്റിസെൽ

Reg. No: 36/12, C.H. Suoudham  
Bus Stand, Vengara,  
Malappuram Dist., Kerala, Pin: 676 304  
Phone: 0494 2457778  
email: alivucharity@gmail.com

നമ്പർ: **13067** തീയതി: 16/05/20  
 ജനാബ്: V.K.M Stone Crusher Charus പക്കൽനിന്ന്  
Manjagara  
Five Thousand only രൂപ



നന്ദിപൂർവ്വം കിട്ടിബോധിച്ചു.

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Bus Stand, Vengara,  
Malappuram Dist., Kerala, Pin: 676 304  
Phone: 0494 2457778  
email: alivucharity@gmail.com

നമ്പർ: **13068** തീയതി: 17/05/20  
 ജനാബ്: V.K.M Stone Crusher Charus പക്കൽനിന്ന്  
Manjagara  
Five Thousand only. രൂപ



നന്ദിപൂർവ്വം കിട്ടിബോധിച്ചു.

₹ 5000/-

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**ANNEXURE 7**  
**MONITORING REPORT**

## TEST REPORT

Test Report No: 20200710/R065	Date: 15.07.2020	Page 1 of 1
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CUSTOMER DETAILS		
Customer Details	Name & Address	Quarry Owned by Mr.Moideen M/s VKM Stone Crusher Cherur, Vengara, Malappuram District
Location Of Site	Re-Survey No	103/2
	Village	Kannamangalam
	Taluk	Thirurangadi
	District	Malappuram
	State	Kerala
Customer Reference	---	

SAMPLE DETAILS			
Source of Sample	Ambient Air	Sample Code	20200710/S065
Location of Monitoring	Near East Side Boundary	Sampled By	Laboratory
Date of Monitoring	10.07.2020	Test Started On	11.07.2020
Sample Received On	11.07.2020	Test Completed On	15.07.2020
Humidity	75%	Sampling Procedure	IS 5182 Part V & XIV

SL NO	TEST PARAMETER	TEST METHOD	UNIT	RESULTS	NAAQ STANDARD
01	Particulate matter (PM <sub>10</sub> )	IS 5182 Part 23: 2006 RA 2017	µg/m <sup>3</sup>	42.6	100
02	Particulate matter (PM <sub>2.5</sub> )	EPA 40 CFR Part 50 Appendix - L	µg/m <sup>3</sup>	18.5	60.0
03	Sulphur dioxide (SO <sub>2</sub> )	IS 5182 Part 2: 2001 RA 2017	µg/m <sup>3</sup>	< 2.00	80.0
04	Nitrogen dioxide (NO <sub>2</sub> )	IS 5182 Part 6: 2006 RA 2017	µg/m <sup>3</sup>	< 2.00	80.0

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

For and on behalf of  
Standard<sup>S</sup> Environmental & Analytical Laboratories



*(Signature)*  
Authorized Signatory

**Laju P. N.**  
**Laboratory Head**

Test Report No: 20200710/R068	Date: 15.07.2020	Page 1 of 1
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CUSTOMER DETAILS			
Customer Details	Name & Address	Quarry Owned by Mr. Moideen M/s VKM Stone Crusher Cherur, Vengara, Malappuram District	
Location Of Site	Re-Survey No	103/2	
	Village	Kannamangalam	
	Taluk	Thirurangadi	
	District	Malappuram	
	State	Kerala	
Customer Reference	---		
SAMPLE DETAILS			
Sample Code	20200710/S068	Sample Received On	11.07.2020
Sample Name	Solid	Sampling Procedure	---
Sample Description	Soil	Sampling Location	---
Identification By Customer	---	Sample Condition	Good
Sampled On	---	Test Started On	11.07.2020
Sampled By	Customer	Test Completed On	15.07.2020

SL NO	PARAMETERS TESTED	TEST METHOD	UNIT	RESULT	
01	pH	IS 10158: 1982 RA 2014	---	6.21	
02	Conductivity	IS 14767: 2000 RA 2016	μS/cm	109	
03	Water Holding Capacity	SEAL/EN/SLS/SOP/01	%	58.8	
04	Particle Size Distribution	Clay	SEAL/EN/SLS/SOP/14	%	28.4
		Sand	SEAL/EN/SLS/SOP/14	%	40.2
		Silt	SEAL/EN/SLS/SOP/14	%	31.0
05	Organic Matter	IS 2720 Part 22:1992	%	0.21	
06	Sodium as Na	USEPA 7000B:2009	%	0.18	
07	Chlorides	SEAL/EN/SLS/SOP/08	%	0.13	
08	Sulphate	IS 2720 Part 27: 1977	%	0.10	
09	Total Kjeldahl Nitrogen (as N)	IS 14684 :1999 RA 2014	%	0.20	
10	Available Potassium	SEAL/EN/SLS/SOP/03	%	0.19	
11	Total Phosphorous (as P)	IS 10158: 1982 RA 2014	%	0.12	

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

For and on behalf of  
Standard<sup>S</sup> Environmental & Analytical Laboratories



Authorized Signatory  
**Laiju P. N.**  
Laboratory Head

## TEST REPORT

Test Report No: 20200710/R067	Date: 15.07.2020	Page 1 of 1
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### CUSTOMER DETAILS

Customer Details	Name & Address	Quarry Owned by Mr.Moideen M/s VKM Stone Crusher Cherur, Vengara, Malappuram District	
Location of Site	Re - Survey No	103/2	
	Village	Kannamangalam	
	Taluk	Thirurangadi	
	District	Malappuram	
	State	Kerala	
Customer Reference	---		

### SAMPLE DETAILS

Sample Code	20200710/S067	Sample Received On	11.07.2020
Sample Name	Water	Sampling Procedure	---
Sample Description	Bore Well	Sampling Location	---
Identification By Customer	---	Sample Condition	Good
Sampled On	---	Test Started On	11.07.2020
Sampled By	Customer	Test Completed On	15.07.2020

SL NO	TEST PARAMETER	TEST METHOD	UNITS	RESULT	ACCEPTABLE LIMIT (IS 10500 - 2012)
01	Colour	IS 3025 Part 4:1983 RA 2017	Hazen	1.00	5.00 (Max)
02	Odour	IS 3025 Part 5:1983 RA 2017	---	Agreeable	Agreeable
03	Turbidity	IS 3025 Part 10:1984 RA 2017	NTU	0.30	1.00 (Max)
04	pH	IS 3025 Part 11:1983 RA 2017	---	7.02	6.50 - 8.50
05	Conductivity	IS 3025 Part 14:1984 RA 2013	µS/cm	138	---
06	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2017	mg/L	89.0	500 (Max)
07	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 Part 21:2009 RA 2014	mg/L	38.4	200 (Max)
08	Calcium (as Ca)	IS 3025 Part 40:1991 RA 2014	mg/L	8.08	75.0 (Max)
09	Magnesium (as Mg)	IS 3025 Part 46:1994 RA 2014	mg/L	4.43	30.0 (Max)
10	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2014	mg/L	20.1	250 (Max)
11	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 Part 23:1986 RA 2014	mg/L	32.5	200 (Max)
12	Iron (as Fe)	IS 3025 Part 53:2003 RA 2014	mg/L	0.18	1.00 (Max)
13	Sulphate (SO <sub>4</sub> )	IS 3025 Part 24:1986 RA 2014	mg/L	1.23	200 (Max)
14	Total Coliform Bacteria	IS 15185 : 2016	---	Absent/100 ml	Absent/100 ml
15	E coli	IS 15185 : 2016	---	Absent/100 ml	Absent/100 ml

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



For and on behalf of  
Standard's Environmental & Analytical Laboratories

*(Signature)*  
Authorized Signatory  
**Laiju P. N.**



## TEST REPORT

Test Report No: 20200710/R066	Date: 15.07.2020	Page 1 of 1
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CUSTOMER DETAILS	
Customer Details	Name & Address Quarry Owned by Mr.Moideen M/s VKM Stone Crusher Cherur, Vengara, Malappuram District
Location of Site	Re-Survey No 103/2
	Village Kannamangalam
	Taluk Thirurangadi
	District Malappuram
	State Kerala
Customer Reference	---
SAMPLE DETAILS	
Source of Sample	Ambient Sound Level
Sample Code	20200710/S066
Location of Monitoring	East Side Boundary
Date of Monitoring	10.07.2020

DAYTIME	RESULT	NIGHTTIME	RESULT
06.00 Hrs	36.0 dB (A)	23.00 Hrs	36.0 dB (A)
07.00 Hrs	38.6 dB (A)	00.00 Hrs	35.7 dB (A)
08.00 Hrs	42.7 dB (A)	01.00 Hrs	36.4 dB (A)
09.00 Hrs	46.0 dB (A)	02.00 Hrs	36.0 dB (A)
10.00 Hrs	48.2 dB (A)	03.00 Hrs	36.7 dB (A)
11.00 Hrs	51.2 dB (A)	04.00 Hrs	35.7 dB (A)
12.00 Hrs	48.6 dB (A)	05.00 Hrs	37.4 dB (A)
13.00 Hrs	47.9 dB (A)	RESULTS	
14.00 Hrs	48.2 dB (A)		
15.00 Hrs	48.6 dB (A)	Noise Level (Leq) Daytime	46.7 dB (A)
16.00 Hrs	49.7 dB (A)		
17.00 Hrs	50.1 dB (A)		
18.00 Hrs	44.9 dB (A)		
19.00 Hrs	41.6 dB (A)		
20.00 Hrs	37.8 dB (A)	Noise Level (Leq) Nighttime	36.0 dB (A)
21.00 Hrs	37.4 dB (A)		
22.00 Hrs	34.9 dB (A)		

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

For and on behalf of  
Standard<sup>S</sup> Environmental & Analytical Laboratories



Authorized Signatory  
**Laiju P. N.**  
Laboratory Head