

# ENVIRONMENT CLEARANCE COMPLIANCE REPORT

*April 2020 - September 2020*

*for*

***GRANITE BUILDING STONE QUARRY***  
***(Minor Mineral)***

**Extent: 4.5180 Ha. (11.1639 Acres)**

At

Re- Sy No.	:	275/1A
Village	:	Tripangottur
Taluk	:	Thalassery
District	:	Kannur
State	:	Kerala,

**'Granite Building Stone Quarry of Mr. Jovin George.'**  
**E.C.No:154/ECA/KNR/2018/DEIAA**

***Compliance Report (April 2020- September 2020) of 'Granite Building  
Stone quarry of Mr.Jovin George'***

**Compliance Status of the General Conditions for Mining Projects Laid down by the  
State Environment Impact Assessment Authority, Kerala vide their Environment  
Clearance No.170/20178 dated: 19/05/2018.**

**SPECIFIC CONDITIONS**

<b>Sl.No</b>	<b>Condition</b>	<b>Status of Compliance</b>
1	A Mines Manager shall be appointed to control, direct, manage and supervise Quarrying Operations as required under the Mines Act 1952.	A Mines manager is appointed to supervise Quarrying Operations.
2	Health and welfare measures for the persons employed shall be implemented.	Health and welfare measures for the employees are implemented.
3	Controlled blasting should be practiced, and blasting should be done only during day time. The mitigating measures for control of ground vibrations to arrest the fly rocks and boulders should be implemented.	All precautionary measures are adopted while blasting operations are carried out. I. No secondary blasting like Pop Shooting or Plaster Shooting are undertaken for breaking down large boulders, to avoid Air Blast and Fly Rocks. Only rock breakers will be used for breaking down bigger boulders. II. Additional precaution of controlled blasting with sand bags and wire mesh/blasting pads are used so that there are no fly rocks from the blast
4	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 species in consultation with the local DFO/ Agriculture Department.	A green belt of a width of 7.5 mts has been made along the periphery of the Lease area by planting species in consultation
5.	The drains should be regularly desilted and maintained properly. Check dams and gully checks shall be constructed wherever required to arrest siltation. De siltation shall also be done every year before the onset of monsoon.	The drains will be constructed and maintained.
6	Fencing must be maintained properly all around the lease area.	The entire lease area is fenced and is well maintained.

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7	The CSR should cover the felt needs of the locality with special emphasize for implementing ground water recharging techniques in and at the vicinity of the proposed site.	The CSR activities cover the needs of the locality with special emphasize for implementing ground water recharging techniques.
8	Appropriate sign boards should be displayed	Signboards have been displayed. (Photos are attached as Annexure-1)
9	The blasting time must be displayed and strictly adhered to.	Blasting time is displayed and is strictly followed (Annexure 1)
10	Dust suppression mechanism must be in place.	Water tankers with sprinklers are in use for dust suppression.
11	A separate small plot to be maintained in the premise to preserve rare and endemic species, if any, listed in the bio diversity assessment, etc.	No rare and endemic species is present in the lease area.
12	The PPV values must be less than 10 mm/sec.	PPV values are kept below 10 mm/sec.
13	The green belt shall be provided along the periphery.	Green belt of 7.5 mts width is provided along the periphery of the lease.
14	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.	Height of benches will be maintained as specified in the approved Mining Plan.
15	Loose or hanging rock or mineral boulder on the side wall shall be dressed down before engaging persons for work at the bottom of the bench.	Benches will be properly dressed by excavators and safety will be ensured before engaging employees at the bottom of the bench.
16	Permanent boundary pillars should be fixed by the proponent before commencing quarrying.	Permanent boundary pillars have been fixed. (Annexure 2)
17	No quarry blasting to be undertaken and sustained till warning time limit expires and/or when continuous 48 hours rainfall exceeds 8cms and blasting shall not be resumed until 24hours of rain free situation arises in the quarry locality based on the evaluation by the revenue officials.	Agreed.
18	All waste dumps and top soil dumps shall be properly stabilized using coir mats or bio regeneration. Proper drainage system shall be provided so	Coir mats are used to cover waste dumps. Proper drainage system sare provided to divert the water away from the dump slopes.

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	that water is properly diverted away from the dumps slopes with no disturbance to the stability of the slopes.	
19	All dump slopes shall be sufficiently stabilized by using appropriate species mix of grass, creepers, shrubs and trees. This shall be done in consultation with the Forest department and local research institutes and experts I stabilization of mine dumps.	All dump slopes are stabilized as with grass, creepers, shrubs and trees done in consultation with the Forest department.
20	Garland drains of at least 2 mts width shall be provided all along 7.5 mts buffer zone to divert the water from entering the Quarry slopes. These drains shall be cleaned every year before the monsoon season	Garland drains of 2 mt width along the buffer zone will be constructed.
21	The water from the garland drainage shall be directed to the silt settling ponds. The clarified overflow from the silt settling ponds shall be directed to a Rain Water Harvesting (RWH) pond before releasing the clarified water to the natural water course.	Only clear natural water is let out into the natural water course.
22	A retaining wall of stone rubble with wire (2 mt) shall be constructed at the bottom of the slope of the Quarry lease to arrest any likely mesh of sufficient width and strength (not less than roll of boulders during heavy rainfall.	Retaining wall will be constructed.

**GENERAL CONDITIONS OF HEALTH**

<b>Sl.No.</b>	<b>Conditions</b>	<b>Status of compliance</b>
1	First Aid kit provided in the work site. It shall be periodically maintained properly. Some labourers shall be trained on First Aid.	First Aid kits are provided in the work site and key personnel is trained to render first aid in case of emergencies.
2	Wholesome drinking water should be provided.	Drinking water is provided.
3	Premises should be maintained as wet to suppress the dust.	Site premises is maintained wet to suppress the dust.
4	Sanitary type of latrines and urinals should be provided.	Latrines and urinals are provided.
5.	Resting place to be provided for workers	Resting place is provided to workers.
6	'No Smoking' board should be exhibited according to COTPA act.	'No Smoking' board is exhibited. ( Annexure 1)

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7	Work should not be done in night.	Work is done only during daytime.
8	Details of nearest hospital, shortest route to hospital and contact no. etc. should be available	Emergency contact numbers of Key persons, Hospitals, police station, etc. is prominently displayed.
9	Approach roads should be maintained properly	Approach roads are well maintained.

**GENERAL CONDITIONS**

<b>Sl.No</b>	<b>Condition</b>	<b>Compliance Status</b>
1	Rainwater harvesting facility should be installed as per prevailing provisions of KMBR/KPBR, unless otherwise specified.	Rainwater harvesting facility will be installed.
2	Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.	Environmental Monitoring Cell has been 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 approach roads and internal roads.	Avenue trees are planted along the sides of the tarred road.
4	Maximum Possible Solar Energy generation and utilization shall be ensured as an essential part of the Project.	Solar Energy generation and utilization shall be adopted.
5	Sprinklers shall be installed and used in the Project Site to contain dust emissions.	Water tankers with sprinklers are in use to control dust emission.
6	Eco-restoration, including the Mine Closure Plan shall be done at the own cost of the Project Proponent.	Agreed.
7	At least 10 per cent of total excavated Pit area should be retained as water storage area 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 the Pit is stipulated in the EC.	Agreed.
8	Corporate Social Responsibility (CSR) agreed upon by the Proponent should be implemented.	CSR activities are implemented as agreed.
9	The Lease area will 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	Lease area is fenced off. Sign boards and boundary pillars have been erected at the site and protected.

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	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 the Explosives department.	Warning alarms are installed and sirens are made before blasting for indication.
11	Control measures on noise and vibrations prescribed by KSPCB should be implemented	Noise and vibrations are kept within KSPCB prescribed norms. I. Use of sharp drilling, delivery of compressed air at optimal pressure. II. Proper maintenance of compressor, drilling machine, jackhammers and tipper trucks. III. Regular monitoring of noise levels are being done within the core zone and the buffer zone of the mining lease area.
12	Quarrying activities should be limited to daytime as per KSPCB guidelines/specific conditions.	Quarrying activities limited to daytime.
13	Blasting should be done in a controlled manner as specified by the regulations of the Explosives department or any other agency.	Blasting is done in a controlled manner and is done technically as prescribed by the mining statutes. Only a small diameter drill holes of 33 mm diameter with 25mm cartridges slurry/ emulsion explosive are used for blasting, no large diameter holes are proposed for blasting. With optimum blast design, effective blasting techniques with delay detonators and low charges per delay, care has been taken to limit the blast vibrations and the PPV value below 10mm per second.
14	A licensed person should supervise/control the Blasting Operations	Blasting supervision and control is done by a Mining Official having DGMS Certificate.
15	Access road to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.	Access road to the Quarry is tarred to control dust.
16	Overburden materials should be managed within the site and used for reclamation of Mine Pit as per Mine closure Plan/specific conditions	Overburden material is used for road making and as a filler along the Green Belt for plantation purpose.
17	Height of Benches should not exceed 5 M and width should not be less than 5	Agreed.



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	M, if there is no mention in the Mining Plan/specific conditions	
18	Mats to reduce fly rock blast to a maximum of 10 PPV should be provided	Controlled blasting technique is adopted. PPV is kept to a minimum.
19	Maximum depth of Mining from general ground level at site shall not exceed 10 m	Agreed.
20	No Mining operations should be carried out at places having a slope greater than 45°	Agreed.
21	Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow bricks envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB.	Crusher unit is not installed within Mining Lease.
22	The workers on the site should be provided with the required protective equipment such as ear muffs helmet, etc.	Requisite Personal Protective equipments (PPE's) is provided to all employees.
23	Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.	Garland drains will be constructed
24	The transportation of minerals should be done in covered trucks to contain dust emissions.	All trucks transporting material are covered by firmly tied tarpaulin
25	The proponent should plant trees at least 5 times the loss that has been occurred while clearing the land for the project.	Plantation activities will be done with species collected in consultation with District Forest Office,Kannur.
26	Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations.	Spent oil is reused as a lubricant for drilling.
27	Explosives should be stored in magazines in isolated place specified and approved by the Explosive Department.	Explosives is stored in a Licensed Explosives Magazine, which is approved by PESO. (Copy of the Explosive license is attached as Annexure-3)
28	A minimum buffer distance of 100 M from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided. (Read as 50m)	No dwellings are situated within 50m from the boundary of the quarry.
29	100 M buffer distance should be maintained from forest boundaries	Mining area is not located near any forest areas.

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30	Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating mining activity.	Consent from KSPCB under Air and Water Act(s) is obtained.
31	All other statutory clearances should be obtained, as applicable, by project proponents from the respective competitive authorities including that for blasting and storage of explosives.	All required statutory clearances obtained. The DGMS permission is under process.
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 environment parameters/impacts as assessed, based on which only the EC 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.	There is no change in the scope of mining.
33	The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the Environmental Clearance under provisions of the Environment (Protection) Act,1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Agreed.

34	The stipulations by the Statutory Authorities under different Acts and Notifications should be complied with including the provisions of the 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	Agreed.
35	The project proponent should advertise in at least 2 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 Environment Clearance and the copies of the Clearance	Advertisements informing EC accordance to the Project is done in 2 no's newspapers and submitted in earlier report.



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	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 the 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 the concerned Gram 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.	A copy of the Clearance is submitted to panchayat. ( Enclosed as <b>Annexure-4</b> )
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 Regional office of the MOEF, Govt. of India and also to the State Environment Impact Assessment Authority (SEIAA) office	Half yearly reports are submitted as stipulated
38	The details of Environment Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times Roman font of size 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	Details of Environmental Clearances are prominently displayed at the entrance to the Mine. (photo of the sign board is Attached as Annexure-1)
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.	Provided.
40	No change in mining technology and scope	Prior approval from the SEIAA

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	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.	will be sought in case of change of mining technology.
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.	No natural water course is obstructed. Necessary safeguard measures will be taken to protect first order streams if originating from the mining lease in the future.
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.	Monitoring of Ambient Air Quality will be carried out. Water sprinkling will be done at places of loading and unloading & transfer point to reduce fugitive emissions. (Monitoring Photos & Report are attached as Annexure 5 & 6)
43	The top soil, if any, shall be 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(s) only. The maximum height of the dumps shall not exceed 8 m and the width 20 m 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 should continue until the vegetation becomes self-sustaining	Available top soil will be used at the Green belt for plantation. OB generated is used for plantation purposes along the Green/Safety zone.
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 the river and 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 monsoons and maintained properly	Catch drains will be made along the periphery of the mining lease.
45	Effective safeguard measures such as regular water sprinkling shall be carried out	Regular water sprinkling is done on haul roads with water tankers

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	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.	at haul roads, loading , unloading points and transfer points.
46	Fugitive dust emissions from all sources should be controlled regularly. Water spraying arrangements on haul roads, loading and unloading and transfer points should be provided and properly maintained.	Fugitive dust emissions are controlled by spraying on haul roads, loading and unloading and transfer points
47	Measures should be taken for control of noise levels below 85 dB(A) in the work environment.	Adequate measures for noise control is adopted.
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.	An Environment Management Cell is set up under the control of the Mines Manager.
49	The funds earmarked for environment protection measures and CSR activities should be kept in a separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the State Environment Impact Assessment Authority (SEIAA) office.	The funds earmarked for environment protection measures and CSR activities are be kept in a separate account and is not diverted for other purposes. <i>Annexure - 7</i>
50	The Regional Office of MOEF and CC located in Bangalore shall monitor compliance of the stipulated conditions. The Project authorities should extend full cooperation to the Officer(s) if the Regional Office by furnishing the requisite data/information/monitoring reports.	We will extend full cooperation to any officer(s) from the Regional Office during his/their visit. All available data will be provided.
51	Any appeal against the Environment 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	Agreed.
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 provisions of the Environment (Protection) Act, 1986.	Factual and true data will be submitted.

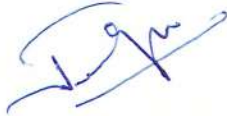
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53	The SEIAA may revoke or suspend the order for non-implementation of any of the specific or this implementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of the environment protection	Agreed.
54	The above conditions shall prevail notwithstanding anything to the contrary, inconsistent or simplified, contained in any other permit, license or consent given by any other authority for the same project.	Agreed.
55	The order is valid for a period of 5 years of the expiry date of Mine lease period issued by the Government of Kerala, whichever is earlier	Agreed.
56	The Environment Clearance will be subject to the final order of the courts in any pending litigation related to the land or the project, in any court of law.	Agreed.
57	The Mining operations shall be restricted to above ground water table and it should not intersect ground water table.	Mining operations will be restricted to above ground water table and due care will be taken so as not to intersect ground water.
58	All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution checking center. Washing of all vehicles shall be inside the Lease area	Will ensure that all transportation vehicles have PUC issued by an authorized Pollution checking center.
59	Project proponent should obtain necessary prior permission of the competent authorities for drawl of necessary quantity of surface and ground water for the project.	Agreed.
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	No perennial nallah flows through the lease or exist around the Mine Lease.

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61	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Occupational health surveillance will be undertaken.
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For 'Granite Building Stone of Mr.Jovin George'



**(Mr.Jovin George)**

Owner

Date: 09.01.2021



## Annexure 1





## Annexure 2







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, ब्लॉक सी-2, तीसरी मंजिल | Kendriya Bhavan, Block C-2, 3rd Floor  
CSEZ पो.ओ.कक्कनाड कोच्चि | CSEZ PO Kakkanad Dist. Ernakulam Ernakulam 682037  
फोन (Phone):- 2427286 | फैक्स (Fax):- 2427276  
ई-मेल Email: dycceernakulam@explosives.gov.in

संख्या (No.): E/SE/KL/22/18(E85231)

दिनांक (Date): 07/02/2019

सेवा में | To,

JOVIN GEORGE,

Madathinamattathil House, Palisseri, Thalassery P.O., Thalassery, Kannur, Town/Village - Palisseri  
District-KANNUR, State-Kerala, Pincode - 670101

8 FEB 2019

विषय : Survey No.275/1A, ग्राम Tripangottur, जिला KANNUR, राज्य Kerala में विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेतु  
विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुज्ञति सं E/SE/KL/22/18(E85231) के नवीनीकरण संदर्भ में।

Subject: Possession for Use of Explosives from magazine situated at Survey No.:275/1A, Tripangottur, Dist. KANNUR, Kerala -Licence  
No.: E/SE/KL/22/18(E85231) granted in Form LE-3 of Explosives Rules, 2008 - Renewal regarding

महोदय | Sir,

आपका उपर्युक्त विषय पर पत्र संख्या Nil दिनांक 30/01/2019 का संदर्भ ग्रहण करें। विस्फोटक नियम, 2008 के अंतर्गत प्रारूप LE-3 में जारी अनुज्ञति दिनांक 31/3/2024 तक नवीनीकृत कर इस पत्र के साथ भेजी जा रही है।  
Reference to your letter No.: Nil dated: 30/01/2019, the subject licence duly renewed upto 31/3/2024 and issued in Form LE-3 of Explosives Rules, 2008 is forwarded herewith.

अनुज्ञति 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.

- प्रारूप आरई-1 में विधिवत पूर्ण एवं हस्ताक्षरित आवेदन।  
Application in Form RE-1 duly filled in and signed.
- एक से पाँच वर्ष के अनुज्ञति 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 अनुज्ञति।  
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 जाएं (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.

आपके खाते में रुपए 700/- की राशि शेष है जो इस संदर्भ को उद्धृत करते हुए भविष्य के संव्यवहार में समायोजित की जा सकती है।  
An amount of Rs. 700/- balance is in your credit, which may be utilized for future transaction by quoting this reference.

भवदीय | Your's faithfully

(आर.वेणुगोपाल | Dr. R.Venugopal)

उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives

कोच्चि | Ernakulam  
Deputy Chief Controller of Explosives

एरणाकुलम Ernakulam

उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives  
कोच्चि | Ernakulam

प्रतिलिपि प्रेषित | Copy Forwarded to:

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

(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>)



### अनुज्ञति 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)

प्रयोग 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 अनुज्ञति

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

अनुज्ञति सं. (Licence No.) : E/SE/KL/22/18(E85231)  
वार्षिक फीस रूप (Annual Fee Rs): 2400/-



1. Licence is hereby granted to

**JOVIN GEORGE (अधिभोगी / Occupier : JOVIN GEORGE)**, Madathinamattathil House, Palisseri, Thalassery P.O., Thalassery, Kannur, Town/Village - Palisseri, District-KANNUR, State-Kerala, Pincode - 670101

को अनुज्ञति अनुदत्त की जाती है।

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

3. अनुज्ञति 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. अनुज्ञति 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	125 Kg.
2.	Safety Fuse	6,1	0	2000 Mtrs
3.	Electric and/or Ordinary Detonators	6,3	0	3000 Nos.

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

: 25 times as above.

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

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

रेखाचित्र क्र. (Drawing No.) E/SE/KL/22/18(E85231)  
दिनांक (Dated) 05/03/2015

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

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

Survey No. 275/1A, ग्राम (Town/Village) : **Tripangottur**

पुलिस थाना (Police Station) : **Kolavallloor**

जिला (District)

**KANNUR**

राज्य (State)

**Kerala**

पिनकोड (Pincode)

**670693**

दूरभाष (Phone)

**9447485245**

ई. मेल (E-Mail)

फैक्स (Fax)

7. अनुज्ञति परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं।

: **Two cemented magazines**

The licensed premises consist of following facilities.

8. अनुज्ञति 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. अनुज्ञति प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञति की शर्तें और अतिरिक्त शर्तें।

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

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

9.



यह अनुज्ञप्ति तारीख 31 मार्च 2019 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March

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 - 05/03/2015

उप मुख्य विस्फोटक नियंत्रक | Dy. Chief Controller of Explosives

Sd/

Ernakulam

**Amendments :**

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 15/03/2016
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 15/01/2018
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 08/08/2018
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 23/10/2018

**Transfers :**

- Change in Licensee Name/Address/Status dated : 10/07/2017

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
07/02/2019	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.

# Annexure-4



നമ്പർ: 53/2020-2021/A-3/A2-945/20

തീയതി: 27/05/2020


## ത്രിപ്രങ്ങോട്ടൂർ ഗ്രാമപഞ്ചായത്ത്

കല്ലിക്കണ്ടി പി.ഒ., കണ്ണൂർ (ജില്ല)

ഫീൻ : 670693, ഫോൺ : 0490-2462034, ഇ-മെയിൽ : triprangottoorgp@gmail.com

വ്യവസായം, വാണിജ്യം, സംരഭകത്വം, മറ്റ് സേവനങ്ങൾക്കുള്ള ലൈസൻസ്

(കെ.പി.ആർ ആക്ട് സെക്ഷൻ 232, FACTEOS ലൈസൻസ് ചട്ടങ്ങൾ 1996)

ലൈസൻസിയുടെപേര്	ജോവിന് ജോർജ്ജ്		
ലൈസൻസിയുടെ മേൽവിലാസം	മംത്തിനാമറ്റത്തിൽ തലശ്ശേരി		
സ്ഥാപനത്തിന്റെ പേരും, സ്ഥലനാമവും	കാറി നരിക്കോട് മല		
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	കാറി		
വാർഡ് നമ്പർ/കെട്ടിട നമ്പർ	II/275 1A		
ലൈസൻസ് കാലാവധി	01/04/2020 മുതൽ	31/03/2021 വരെ	
ലൈസൻസ് ഫീസ് മോട്ടോർ ഫീസ് തൊഴിൽ നികുതി	തുക	രസീത് നമ്പർ	തീയതി
	5000 /- രൂപ	119010107692	27/02/2020
		119010107692	27/02/2020
	2500 /- രൂപ	119010107693	27/02/2020
ലൈസൻസ് അനുവദിക്കുന്നതിന് ഹാജരാക്കിയ നിരാക്ഷേപ പത്രങ്ങളുടെ വിശദാംശങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാര സ്ഥാപനം )	<p>1. പൊലുഷൻ കൺട്രോൾ ബോർഡിന്റെ 08/05/2020 ലെ NO PCB/KNR/ICO-R/488/2020 ,(VALIDITY 30/04/2025)</p> 		

ഓഫീസ് മുദ്ര

ത്രിപ്രങ്ങോട്ടൂർ ഗ്രാമപഞ്ചായത്ത്

triprangottoor Grama Panchayat  
P. O. Kallikkandi-670 693



**ലൈസൻസി താഴെ പറയുന്ന വ്യവസ്ഥകൾ അനുസരിക്കേണ്ടതാകുന്നു.**

- 1 കേരള പഞ്ചായത്ത് രാജ് ആക്ടും അതേ തുടർന്നുള്ള ചട്ടങ്ങളും ബൈലകളും അനുസരിച്ചു പ്രവർത്തിക്കേണ്ടതാകുന്നു.
- 2 തൊഴിൽ സ്ഥലവും അതിലുള്ള സാധനസാമഗ്രികളും പഞ്ചായത്തധികാരികൾക്കോ/സെക്രട്ടറി അധികാരപ്പെടുത്തുന്ന മറ്റ് ഉദ്യോഗസ്ഥർക്കോ പരിശോധിക്കുന്നതിന് ലൈസൻസി വേണ്ട സൈകര്യം നൽകേണ്ടതും അവർ ആവശ്യപ്പെട്ടാൽ ഈ ലൈസൻസ് കാണിക്കേണ്ടതുമാണ്.
- 3 ഏത് സ്ഥലത്തിന്റെ കാര്യത്തിൽ ലൈസൻസ് നൽകിയിരിക്കുന്നുവോ ആ സ്ഥലത്ത് എല്ലാവരും കാണത്തക്ക വിധത്തിലുള്ള ഒരു ഭാഗത്ത് ലൈസൻസി തന്റെ പേരും, ലൈസൻസിന്റെ നമ്പരും ഉദ്ദേശവും കാണിക്കുന്ന ഒരു അടയാളപ്പലക വച്ചിരിക്കേണ്ടതാണ്.
- 4 പഞ്ചായത്തിൽ നിന്നും അനുവാദം ലഭിച്ചശേഷമല്ലാതെ തൊഴിൽ സ്ഥലം മാറ്റാൻ പാടില്ലാത്തതും തൊഴിൽ നിർത്തുന്ന പക്ഷം വിവരം മുൻകൂട്ടി പഞ്ചായത്തിൽ അറിയിക്കേണ്ടതാകുന്നു.
- 5 തൊഴിൽ സ്ഥലവും പരിസരങ്ങളും വൃത്തിയായും സാംക്രമികരോഗാണുക്കൾ ഉണ്ടാക്കാത്ത വിധത്തിലും പൊതുജനോപദ്രവമാക്കാത്ത വിധത്തിലും വ്യപാരത്തിനു വച്ചിട്ടുള്ള ഭക്ഷണപദാർത്ഥങ്ങൾ ഈച്ച, അണുക്കൾ, പൊടി മുതലായവയുടെ ശല്യം ഉണ്ടാക്കാത്ത വിധത്തിലും സൂക്ഷിക്കേണ്ടതാണ്.
- 6 ഒരോ പ്രവർത്തിദിവസത്തിന്റെയും ഒടുവിൽ സ്ഥലം വൃത്തിയാക്കേണ്ടതാണ്.
- 7 ആ സ്ഥലത്തിന്റെയോ പരിസരത്തിന്റെയോ, ഏതെങ്കിലും ഭാഗത്ത് വീഴുകയോ നിക്ഷേപിക്കുകയോ ചെയ്യുന്ന ചപ്പുചവറോ, മൃഗങ്ങളുടെ അവശിഷ്ടങ്ങളോ മറ്റ് പദാർത്ഥമോ ശേഖരിച്ച്, സെക്രട്ടറിക്ക് തൃപ്തികരമായ രീതിയിൽ നീക്കം ചെയ്യിക്കേണ്ടതാണ്.
- 8 ലൈസൻസി ഏതൊരു കെട്ടിടത്തിന്റെയും ചുവരുകളുടെ അകവശത്തിന്റെ ഏതൊരു ഭാഗവും മേൽപറഞ്ഞ പരിസരത്തിലുള്ള തറയും നടപ്പാതയും അവിടെ തെറിച്ചുവീഴാനിടയുള്ള ഏതെങ്കിലും ദ്രാവകമോ, മാലിന്യമോ, ചപ്പുചവറോ, അസഹ്യവും, ഉപദ്രവകരവുമായ ഏതെങ്കിലും പദാർത്ഥമോ അവിടെ ലയിക്കുന്നത് തടയത്തക്കവിധം എപ്പോഴും നന്നായി കേടുപാട് തീർത്ത് നിലനിർത്തേണ്ടതാണ്.
- 9 ലൈസൻസി മേൽപറഞ്ഞ സ്ഥലത്തോ, പരിസരത്തോ അതോടു ചേർന്നോ ഉള്ള ഏതൊരു ഓവുചാലും, അഴുക്കുലും കളയുന്നതിനുള്ള ഉപകരണവും എപ്പോഴും നന്നായി കേടുപാട് തീർത്ത് വയ്പിക്കേണ്ടതാണ്.
- 10 അധിതം ആചരിക്കുന്ന കടകളുടെ ലൈസൻസ് റജുചെയ്യുന്നതാണ്.
- 11 ഏതെങ്കിലും തരത്തിലുള്ള തപക്ക് രോഗമോ കുഷ്ഠ രോഗമോ വ്രണമോ പകർച്ച വ്യാധികളോ ഉള്ള യാതൊരാളും കച്ചവടം നടത്തുന്നതിന് ഉപയോഗിക്കുന്ന സ്ഥലത്തും പരിസരത്തും പ്രവർത്തിക്കുവാൻ പാടില്ലാത്തതാകുന്നു.
- 12 50 മൈക്രോണിൽ കുറവുള്ള പ്ലാസ്റ്റിക്കുകളും മറ്റ് നിരോധിത പ്ലാസ്റ്റിക് ഇനങ്ങളും ഉൽപ്പാദിപ്പിക്കുകയോ ശേഖരിച്ചുകയോ വിൽക്കുകയോ കൈകാര്യം ചെയ്യുകയോ ചെയ്യാൻ പാടില്ല.
- 13 സ്ഥാപനത്തിന്റെ ബോർഡിൽ സ്ഥലനാമം മലയാളത്തിലും ഇംഗ്ലീഷിലും രേഖപ്പെടുത്തേണ്ടതാണ്.
- 14 20 സീറ്റിൽ കൂടുതലുള്ള എല്ലാ ഹോട്ടലുകൾക്കും റെസ്റ്റോറന്റുകൾക്കും ടോയ്റ്റ് സൗകര്യം ഏർപ്പെടുത്തേണ്ടതാണ്.
- 15 നിരോധിത ഉൽപ്പന്നങ്ങളായ പാൻമസാല, ഗുഡ്ബ തുടങ്ങിയവ സംഭരിച്ചുവയ്ക്കുവാനോ വിൽക്കുവാനോ പാടില്ല.
- 16 ബാലവേല അനുവദിക്കാൻ പാടില്ല.
- 17 മുകളിൽ കാണിച്ചിരിക്കുന്ന വ്യവസ്ഥകളുടെ ലംഘനം ഈ ലൈസൻസ് റദ്ദ് ചെയ്യപ്പെടുന്നതിന് കാരണമാകാവുന്നതാണ്.



സെക്രട്ടറി  
 27/05/2020

തൃപ്രങ്ങോട്ടൂർ ഗ്രാമപഞ്ചായത്ത്

N.B:- ഈ ലൈസൻസ് അവസാനിക്കുന്ന തീയതിക്ക് 30 ദിവസം മുമ്പ് ലൈസൻസ് പുതുക്കുന്നതിനുള്ള അപേക്ഷ സമർപ്പിക്കേണ്ടതാണ്.

Triprangottoor Grama Panchaya  
 P. O. Kallikkandi-670 693



## **Annexure -7**

### **CSR**

<b>Jovin George ,Thripangottor Village(275/1A 4.5180 Ha)(1/4/2020-30/10/2020)</b>		
<b>25/7/2020</b>	<b>saneesh m kannavam</b>	<b>5840</b>
<b>27/7/2020</b>	<b>karshaka congress</b>	<b>2000</b>
<b>22/8/2020</b>	<b>snehabhavan arayangad</b>	<b>16000</b>
<b>House Aid</b>	<b>Sivaraman, Amari ayyath house ,27TH Mile, Poolakutty</b>	<b>75000</b>
<b>House Aid</b>	<b>Chandran Theyyadi Narikode thhovakunnu</b>	<b>50000</b>
<b>House Aid</b>	<b>Kelappan Theyyadi narikode</b>	<b>25000</b>

## ANNEXURE 5







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e-mail : gems\_hpt@yahoo.com,

Website : www.globalmining.in

GEMS-LD/TF/11/01

Date: 29.06.2020

**Analysis Report of Ambient Air Quality Monitoring**

1	Name of the Customer/Address	: 'Granite Building Stone Quarry of <b>Shri. Jovin George</b>
2	Sample Description	: Extent: 4.5180 Ha. (11.1639 Acres)
3	Sample Collected By	: Sy. Nos: 275/1A, Tripangottur Village, Thalassery Taluk, Kannur District, Kerala State.
4	Duration of the Monitoring	: <b>Ambient Air Quality Monitoring</b>
5	Location of Monitoring	: GLOBAL Environment & Mining Services
6	Report No	: 24 Hour of Sampling
		: <b>(A1) Core zone</b>
		: ULR-TC532320000000169F

**Result**

Sl No.	Date	Parameters in $\mu\text{g}/\text{m}^3$				
		PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	Lead in PM
1	26.06.2020	62.5	25.6	16.3	17.5	BDL
NAAQ Standards 2009		100	60	80	80	1.0

PM<sub>10</sub> - IS 5182 (Part 23): 2006 (RA 2017)PM<sub>2.5</sub> - USEPA 2001SO<sub>2</sub> - IS 5182 (Part 2): 2001 (RA 2017) BDL (<3.0)NO<sub>2</sub> - IS 5182 (Part 6): 2006 (RA 2017) BDL (<5.0)

Lead - IS 5182 (Part 22): 2004 (RA 2014)

BDL - Below Detectable Limit.

Analyzed By  
J.M. Thippeswamy  
Chemist

Authorized Signatory  
K. Ramakrishna Reddy  
Technical Manager

- Approved by NABL & Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
- Recognized by Government of Karnataka, Maharashtra, Goa for DGPS survey

**Note:**

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Website : www.globalmining.in

GEMS-LD/TF/11/01

Date: 29.06.2020

### Analysis Report of Ambient Air Quality Monitoring

- 1 Name of the Customer/Address : 'Granite Building Stone Quarry of Shri. Jovin George'  
: Extent: 4.5180 Ha. (11.1639 Acres)  
: Sy. Nos: 275/1A, Tripangottur Village,  
: Thalassery Taluk, Kannur District, Kerala State.
- 2 Sample Description : **Ambient Air Quality Monitoring**
- 3 Sample Collected By : GLOBAL Environment & Mining Services
- 4 Duration of the Monitoring : 24 Hour of Sampling
- 5 Location of Monitoring : **(A2) Buffer Zone**
- 6 Report No : ULR-TC532320000000170F

### Result

Sl No.	Date	Parameters in $\mu\text{g}/\text{m}^3$				
		PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	Lead in PM
1	27.06.2020	50.6	24.2	16.1	18.3	BDL
NAAQ Standards 2009		100	60	80	80	1.0

PM<sub>10</sub> - IS 5182 (Part 23): 2006 (RA 2017)

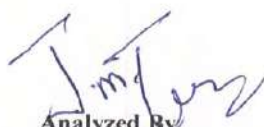
PM<sub>2.5</sub> - USEPA 2001

SO<sub>2</sub> - IS 5182 (Part 2): 2001 (RA 2017) BDL (<3.0)

NO<sub>2</sub> - IS 5182 (Part 6): 2006 (RA 2017) BDL (<5.0)

Lead - IS 5182 (Part 22): 2004 (RA 2014)

BDL - Below Detectable Limit.

  
Analyzed By  
J.M. Thippeswamy  
Chemist

  
Authorized Signatory  
K. Ramakrishna Reddy  
Technical Manager



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Website : www.globalmining.in

GEMS-LD/TF/11/01

Date: 29.06.2020

### TEST REPORT OF AMBIENT NOISE LEVEL MONITORING

- |   |                                 |  |
|---|---------------------------------|--|
| 1 | Name of the Customer/Address    | : 'Granite Building Stone Quarry of<br><b>Shri. Jovin George</b><br>Extent: 4.5180 Ha. (11.1639 Acres)<br>Sy. Nos: 275/1A, Tripangottur Village,<br>Thalassery Taluk, Kannur District, Kerala State. |
| 2 | Sample Description              | : <b>Ambient Noise Level monitoring</b>  |
| 3 | Sample Collected By             | : GLOBAL Environment & Mining Services   |
| 4 | Particulars of Sample Collected | : Noise Level Meter (Equinox-107)  |
| 5 | Duration of the Monitoring      | : 24 Hours Sampling  |
| 6 | Date of Analysis Completion     | : 29.06.2020   |
| 7 | Report No                       | : ULR-TC532320000000170F   |

### Result

Date	26.06.2020	27.06.2020
Name of the Location	Core Zone	Buffer zone
Time (hrs)	N1	N2
6.00	42.7	40.4
7.00	46.3	42.5
8.00	50.5	46.7
9.00	52.8	50.4
10.00	54.8	51.7
11.00	55.7	50.8
12.00	54.8	49.6
13.00	52.6	52.4
14.00	53.4	53.7
15.00	54.2	50.1
16.00	51.8	52.7
17.00	51.7	49.2
18.00	50.8	49.2
19.00	49.8	48.8
20.00	43.8	49.5
21.00	39.0	46.2
22.00	37.0	47.4
23.00	45.6	40.4
00.00	43.0	44.0
01.00	42.2	42.0
02.00	43.0	41.3
03.00	45.2	40.5
04.00	46.6	40.6
05.00	44.8	38.7

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ULR-TC532320000000170F		
<b>L max</b>	55.7	53.7
<b>L min</b>	37.0	38.7
<b>Ld</b>	52.2	50.2
<b>Ln</b>	43.1	43.2
<b>Ldn</b>	52.9	51.6

Area Code	Category of Area	Limit in dB(A) Leq	
		Day Time	Nighttime
<b>A</b>	<b>Industrial Area</b>	75	70
<b>B</b>	<b>Commercial Area</b>	65	55
<b>C</b>	<b>Residential Area</b>	55	45
<b>D</b>	<b>Silence Area</b>	50	40

Note	Day time shall mean from 6:00 am and 10.00 pm
	Night time shall mean from in between 10.00 pm and 5.00 am
	Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority
	Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority
	*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which relatable to human being
	A "decibel" is a unit in which noise is measured
	"A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
Leq: It is energy mean of the noise level over a specified period.	

*D.K.R.*  
**Authorized Signatory**  
 Technical Manager



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Website : www.globalmining.in

**G**  
**EMS-LD/TF/11/01**  
**Date: 29.06.2020**

**ANALYSIS REPORT OF WATER QUALITY DATA**

1	Name of the Customer/Address	: 'Granite Building Stone Quarry of <b>Shri. Jovin George</b> Extent: 4.5180 Ha. (11.1639 Acres) Sy. Nos: 275/1A, Tripangottur Village, Thalassery Taluk, Kannur District, Kerala State.
2	Sample Collected By	: GLOBAL Environment & Mining Services
3	Sampling Method	: Grab Sample
4	Date of sample collection	: 26.06.2020
5	Date of sample Received	: 28.06.2020
6	Date of sample Analyzed	: 29.06.2020
7	Report Number	: ULR-TC532320000000172F

**Result**

Sl. No.	Parameters	Unit	Result	Test Protocol	Requirement/Limit IS : 10500 : 2012	
					Acceptable	Permissible
1.	pH	-	7.5	APHA 22 <sup>nd</sup> Edition 2012 4500 B (Pg No. 4-92 to 4-96)	6.5	8.5
2.	Colour*	Hazen	<5	IS: 3025 (PART 14)- 1984, RA- 2012 Platinum cobalt Method	5	15
3.	Taste*	-	Ag	IS 3025 Part 8 1984	Ag	Ag
4.	Odour*	-	Ag	IS: 3025 (Part 5) – 1983, Ra-2012, True Odour	Ag	Ag
5.	Turbidity	NTU	0.48	APHA 22 <sup>nd</sup> Edition 2012 2130 B (Pg No. 2-14)	1	5
6.	Conductivity	µS/cm	240	APHA 22 <sup>nd</sup> Edition 2012 2510 B (Pg No. 2-54)	-	-
7.	Total Dissolved Solids	mg/L	213	APHA 22 <sup>nd</sup> Edition 2012 2540 B (Pg No. 2-65)	500	2000
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/L	65	APHA 22 <sup>nd</sup> Edition 2320 B (Pg No. 2-35)	200	600
9.	Total Hardness as CaCO <sub>3</sub>	mg/L	176	APHA 22 <sup>nd</sup> Edition 2012 2340 C (Pg No. 2-46)	200	600
10.	Calcium as Ca	mg/L	19	APHA 22 <sup>nd</sup> Edition 2012 3500 Ca B (Pg No. 3-84)	75	200
11.	Magnesium as Mg	mg/L	10.1	APHA 22 <sup>nd</sup> Edition 2012 3500 B-Mg By Calculation	30	100
12.	Chloride as Cl	mg/L	27.4	APHA 22 <sup>nd</sup> Edition 2012 4500 Cl (Pg No. 4-72)	250	1000
13.	Sulphate as SO <sub>4</sub>	mg/L	101	APHA 22 <sup>nd</sup> Edition 2012 4500 SO <sub>4</sub> – E (Pg No. 4-190)	200	400
14.	Nitrates as NO <sub>3</sub>	mg/L	4.50	APHA 23 <sup>rd</sup> Edition - 4500 NO <sub>3</sub> – E (Pg No. 4-131 to 4-132)	45	NR
14.	Nitrate Nitrogen as NO <sub>3</sub>	mg/L	18	APHA 22 <sup>nd</sup> Edition 2012 4500 NO <sub>3</sub> E (Pg No. 4-125 to 4-127)	45	No relaxation

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15.	Fluoride as F	mg/L	0.92	APHA 23 <sup>rd</sup> Edition 2017 4500 F-D (Pg No. 4-90 to 4-91)	1.0	1.5
16.	Iron as Fe	mg/L	0.56	APHA 23 <sup>rd</sup> Edition - 3500 Fe-B (Pg No. 3-80 to 3-82)	0.3	NR
17.	Sodium as Na	mg/L	8.45	APHA 23 <sup>rd</sup> Edition 2017 Na 3500 B (Pg No. 3-99 to 3-100)	-	-
18.	Potassium as K	mg/L	0.65	APHA 23 <sup>rd</sup> Edition 3500 K B (Pg No. 3-89 to 3-90)	-	-
19.	BOD 3 days at 27° C	mg/L	NIL	IS:3025 (P.44) - 1993, RA-2014,	-	-
20.	COD as O <sub>2</sub>	mg/L	NIL	APHA 23 <sup>rd</sup> Edition 5220 C (Pg No. 5-18 to 5-19)	-	-
21.	Oil & Grease	mg/L	NIL	APHA 23 <sup>rd</sup> Edition 5520 B (Pg No. 5-41 to 5-42)	0.5	NR
22.	Cadmium as Cd*	mg/L	<0.001	APHA 23 <sup>rd</sup> Edition-3111 -B (Pg No. 3-20 to 3-21)	0.003	NR
23.	Copper as Cu	mg/L	<0.001	APHA-23 <sup>rd</sup> Edition 3111-B (Pg No. 3-20 to 3-21)	0.02	1.5
24.	Nickel as Ni	mg/L	<0.001	APHA-23 <sup>rd</sup> Edition-3111 -B (Pg No. 3-20 to 3-21)	0.02	NR
25.	Zinc as Zn	mg/L	<0.1	APHA-23 <sup>rd</sup> Edition-3111-B (Pg No. 3-20 to 3-21)	5	15
26.	Salinity*	PPT	NIL	APHA-23 <sup>rd</sup> Edition-3111-B (Pg No. 3-20 to 3-21)	-	-
27.	Total Phosphorous	mg/L	<0.01	APHA-23 <sup>rd</sup> Edition 4500-D (Pg No. 4-154)	-	-
28.	Total Coliforms*	MPN/ 100ml	Ab	APHA 22 <sup>nd</sup> Edition 9222 B (Pg No 9-78)	-	-
29.	Faecal Coliforms	MPN/ 100ml	Ab	APHA 22 <sup>nd</sup> Edition 9222 D (Pg No 9-85)	-	-
30.	Phyto Plankton*	Unit/L	Ab	APHA 23 <sup>rd</sup> Edition 10200 F (Pg No. 10-17)	-	-

Note: BDL Below Detectable Limit

Ag: Agreeable

NR: No Relaxation

RA: reaffirmed

Ab: Absent

**\*\*End of report\*\***

*T.M. Bz*  
Analyzed By  
Chemist

*R.K.R.*  
Authorized Signatory  
Technical Manager



- Approved by NABL & Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
- Recognized by Government of Karnataka, Maharashtra, Goa for DGPS survey

**Note:**

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
- Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles 7 Days and ILC samples from the date of issue of Month test certificate unless otherwise specified.
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