

ENVIRONMENT CLEARANCE COMPLIANCE REPORT

October 2019 – March 2020

for

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

Extent: 4.0 Ha. (9.8840 Acres)

At

Sy No.	:	86/2,87,88/2,88/3,88/1,89/2B,147/2,139/1
Village	:	Kolavallur
Taluk	:	Thalassery
District	:	Kannur
State	:	Kerala,

'Holy Family Stone Crusher and Hollow Bricks.'
E.C.No:623/SEIAA/EC4/4806/2014, Dated:01.06.2016

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Compliance Status of the General Conditions for Mining Projects Laid down by the State Environment Impact Assessment Authority, Kerala vide their Environment Clearance No.75/2016, Dated: 01/06/2016.

SPECIFIC CONDITIONS

Sl. No	Condition	Status of Compliance
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 daytime. 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 sandbags 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 local species saplings.
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.
10	Dust suppression mechanism must be in place.	Water tankers with sprinklers are in use for dust suppression at the site.
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 has been 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.
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	Coir mats are used to cover waste dumps. Proper drainage system shall

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	mats or bio regeneration. Proper drainage system shall be provided so that water is properly diverted away from the dumps slopes with no disturbance to the stability of the slopes.	be provided to divert the water away from the dump 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 will be stabilized using grass, creepers, shrubs and trees in consultation with Forest department and local research institutes.
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 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

Sl.No.	Conditions	Status of compliance
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 are trained to render first aid in case of emergencies.
2	Wholesome drinking water should be provided.	Purified drinking water is provided. (Photos of drinking water facility is attached as Annexure-2)
3	Premises should be maintained as wet to suppress the dust.	Site premises are maintained as wet to suppress the dust.
4	Sanitary type of latrines and urinals should be provided.	Latrines and urinals are provided.

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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.
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

Sl.No	Condition	Compliance Status
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 is headed by Mr. C.G. George.
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 will be planted along either side of the tarred road and open parking areas and approach roads.
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 reduce the dust.
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.
	The Lease area will be fenced off with barbed wires to a minimum height of 4	Lease area is fenced off.

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9	ft around, before starting of Mining. All the boundary indicators (boards, stores, markings, etc.) shall be protected at all times and shall be conspicuous.	
10	Warning alarms indicating the time of Blasting (to be done at specific timings) has to be arranged as per stipulations of the Explosives department.	Warning alarms are arranged at the site. And sirens are made before blast timings. (Image enclosed as Annexure 3)
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 33mm 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, carte 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.
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 leveling works and for Green Belt plantation purpose.

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17	Height of Benches should not exceed 5 M and width should not be less than 5 M, if there is no mention in the Mining Plan/specific conditions	Agreed.
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 earmuffs helmet, etc.	Requisite Personal Protective equipments (PPE's) is provided as required 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.	Agreed. Plant saplings will be procured from District Forest Office/ Agriculture office.
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-4)
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 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.	In case any change is required, a fresh appraisal will be submitted for obtaining Approval from the Authority.
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 letters are available with the State	Advertisements informing EC accordance to the Project was done in 2 no's newspapers and was submitted in earlier reports.

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	Environment Impact Assessment Authority (SEIAA) office and may also be seen on the website of the Authority at www.seiaakerala.org . 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 the Kunnothparamba Gram Panchayat on. (A copy of panchayat license is attached as Annexure-5)
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 of working should be made without prior approval of the SEIAA. No further expansion	Prior approval from the SEIAA will be sought in case of change of mining technology.

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	or modifications in the mine shall be carried out without prior approval of the SEIAA, as applicable.	
41	The Project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken.	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 points (Photos and report of monitoring is attached as Annexure-6 & 7)
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 topsoil 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 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	Regular water sprinkling is done on haul roads, loading and unloading points and transfer points with water tankers.

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	the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	
46	Fugitive dust emissions from all 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 is controlled. Water spraying is done at 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 activate 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 kept in a separate account and is not diverted for other purposes.
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.
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	Agreed.

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	condition in the interest of the environment protection	
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 'Holy Family Stone Crusher and Hollow bricks'

(Mr. C.G.George)

Co- Owner

24.07.2020



SIGN BOARDS AND E.C. BOARDS:





PURIFIED DRINKING WATER FACILITY AT SITE:



ELECTRIC BLASTING SIREN INSTALLED AT MINES:





Annexure-4

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 पी.ओ.क्वथानाड कोच्चि | CSEZ PO Kakkannad Dist. Ernakulam Ernakulam 682037
 फोन (Phone):- 2427286 | फैक्स (Fax):- 2427276
 ई-मेल Email: dycceernakulam@explosives.gov.in

संख्या (No.): E/SC/KL/22/746(E32353)

दिनांक (Date): 07/02/2019

वेब में | To,

Shri C.G. George,
 Chath House, Kuthuparamba post, Town/Village - Kuthuparambu
 District-KANNUR, State-Kerala, Pincode - 670643

8 FEB 2019

विषय :

Survey No(s).88/1, ग्राम Kolavallur, Thalassery Tk., जिला KANNUR, राज्य Kerala में विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुमति सं E/SC/KL/22/746(E32353) के नवीनीकरण संदर्भ में।

Subject:

Possession for Use of Explosives from magazine situated at Survey No(s).88/1, Kolavallur, Thalassery Tk., Dist. KANNUR, Kerala - Licence No.: E/SC/KL/22/746(E32353) 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 प्ररूप LE-3 में जारी अनुमति 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.

अनुमति 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 पांच वर्ष के अनुमति शुल्क का बैंक ड्राफ्ट। बैंक ड्राफ्ट किसी भी राष्ट्रीयकृत बैंक के नाम आहरित, संयुक्त मुख्य विस्फोटक नियंत्रक, चेन्नई के पक्ष में चेन्नई में देय हो।
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 अनुमति।
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 जाए। 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 ऑपरेशन 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 ऑपरेशन 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 रुपय 1840/- की राशि शेष है जो इस संदर्भ को उद्धृत करते हुए भविष्य के संव्यवहार में समायोजित की जा सकती है।

An amount of Rs. 1840/- 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 विस्फोटक नियंत्रक

Deputy Chief Controller of Explosives

एरणाकुलम Ernakulam

प्रतिलिपि भेजित | Copy Forwarded to:

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

उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives

कोच्चि | Ernakulam

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क आदि के लिए हमारी वेबसाइट <http://peso.gov.in> देखें।)
 (For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)

(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 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/SC/KL/22/746(E32353)

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



1. Licence is hereby granted to

Shri C.G.George (अधिभोगी / Occupier : C G George), Chittath House, Kuthuparamba post, Town/Village - Kuthuparambu, District-KANNUR, State-Kerala, Pincode - 670643

को अनुज्ञति अनुदत्त की जाती है।

2. अनुज्ञतिधारी की प्रास्थिति | Status of licensee : Individual

3. अनुज्ञति निम्नलिखित प्रयोजनों के लिए विधिमाम्य है।

: possess for use of Nitrate Mixture, Safety Fuse, Electric Detonators, Ordinary Detonator, के उपयोग के लिए

Licence is valid only for the following purpose.

4. अनुज्ञति विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमाम्य है।

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

क्र. Sr. No.	नाम और विवरण Name and Description	वर्ग और प्रभाग Class & Division	उप-प्रभाग Sub-division	मात्रा किसी एक समय में Quantity at any one time
1.	Nitrate Mixture	2,0	0	150 Kg.
2.	Safety Fuse	6,1	0	2000 Mtrs
3.	Electric Detonators	6,3	0	2500 Nos.
4.	Ordinary Detonator	6,3	0	5000 Nos.

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

: 26 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 अनुज्ञत परिसर की पुष्टि होती है। रेखाचित्र क्र. (Drawing No.) E/SC/KL/22/746(E32353) The licensed premises shall conform to the following drawing(s): दिनांक (Dated) 16/12/2005

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

Survey No(s). 88/1, ग्राम (Town/Village) : Kolavallur, Thalassery Tk.

जिला (District)

KANNUR

राज्य (State)

ई. मेल (E-Mail)

Kerala

पुलिस थाना (Police Station) : Kolavallur

पिनकोड (Pincode)

फैक्स (Fax)

7. अनुज्ञति परिसर में निम्नलिखित सुविधाएं अंतर्भूत हैं।

The licensed premises consist of following facilities.

: One Mini Explosives Magazine & Detonator Room

8. अनुज्ञति समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के

उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपावधों 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 अनुज्ञति तारीख 31 मार्च 2007 तक विधिमाम्य रहेगी। This licence shall remain valid till 31st day of March 2007.

यह अनुज्ञति, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा

उपवर्णित इस अनुज्ञति की शर्तों का अधिक्रमण करने या यदि अनुज्ञत 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.

Sd/-

तारीख | The Date - 16/12/2005

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

Amendments :

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 23/08/2012
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 22/07/2014
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 13/01/2015
- Amendment in Drawings/Facilities/Premises dated : 23/08/2016
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 22/12/2017

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
एरनाकुलम Ernakulam

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

मैगजीन में वर्ग 1,2,3,4,5,6, और 7 के विस्फोटकों को किसी 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 अनुज्ञति सं. E/SC/KL/22/746(E32353) की शर्तें निम्नलिखित हैं।
The following are the conditions of licence number E/SC/KL/22/746(E32353) 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 अनुज्ञति के उपाबंध में विनिर्दिष्ट सुरक्षा दूरी बनाए रखनी होगी।
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 अनुज्ञति में विनिर्दिष्ट हैं, रखे जाने के लिए और ऐसे रखे जाने से संबंध आधान या औजार या उपकरणों के रखे जाने के लिए ही किया जाएगा; अन्वथा 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 पृथक् 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 पलौते और वर्ग 6 प्रभाग 2 के अंतर्गत आनेवाले विस्फोटक प्रेरक पलौते, 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 सियाय 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 अभिप्राय कर लिया जाए जिसमें दी गई मंजूरी के अंतर्गत आनेवाली अवधि दर्शित की गई हो और ऐसे प्रमाणपत्र के अनुज्ञतिधारी 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 ग्लिसरीन या द्रव नाइट्रो योगिक के निकल जाने के विन्हा प्रकट होने के कारण मैगजीन में भण्डारित किए जाने के उपयुक्त नहीं रह जाता है तो अनुज्ञतिधारी 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 बेंचों, शेल्फों और उसकी फिटिंग का इस प्रकार सन्निर्माण किया जाएगा या उन्हें इस प्रकार अंतरित या अवतरित किया जाएगा कि विस्फोटक का किसी लोहे या इस्पात के साथ संपर्क रोका जा सके। भीतरी भाग में लगी बेंचें, शेल्फें और फिटिंग यथासाध्य शिट से मुक्त एवं साफ रखे जाएंगे तथा ऐसे विस्फोटक, जो जल से खतरनाक रूप में प्रभावित हो सकते हैं, इस बावत सन्त्यक 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

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Deputy Chief Controller of Explosives
एरणाकुलम Ernakulam

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 अनुज्ञापिधारी ऐसे परीक्षण के लिए विहित फीस का संदाय करेगा यदि परीक्षण असमाधानकारी साबित होता है तो उसनी ही फीस अनुज्ञापिधारी द्वारा पश्चात्पत्ती 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 प्रभाय 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 यह भाग, जो लोहे या इस्पात के अपवर्जन को लागू होता है, ऐसे किसी भवन के संबंध में बाध्य कर नहीं होगा जिससे भिन्न कोई विस्फोटक नहीं रखा गया है ।
Due provisions shall be made, by the use of suitable working clothes without pockets, suitable shoes and by searching or otherwise or by such means, for preventing the introduction into danger area of the factory premises of fire, Lucifer matches or any substance or article likely to cause explosion or fire, but this condition shall not prevent the introduction of an artificial light of such construction, position or character as not to cause any danger of fire or explosion:
Provided that so much of this condition as applies to the exclusion of iron or steel, shall not be obligatory in a building in which no explosive other than an explosive of the 1st Division of the 6th (Ammunition) Class is kept.
11. अनुज्ञापिधारी प्ररूप आर.ई.-3 और आर.ई.-4 या आर.ई.-5, जैसी स्थिति 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 अनुज्ञापिधारी ऐसी किसी शर्त का अनुपालन करेगा जो इस निमित्त अनुज्ञापन प्राधिकारी विनिर्दिष्ट करे ।
No changes or alterations shall be carried out to the premises without prior approval of the licensing authority and the licensee shall comply with any condition that may be specified by the licensing authority in this behalf.
13. मैगजीन सभी समयों पर अच्छी मरम्मत की स्थिति में बनाई रखी जाएगी (या अच्छी हालत में बनाई रखी जाएगी) । यदि किसी कारणवश किसी विस्फोटक के भण्डारण के लिए मैगजीन अनुपयुक्त हो जाती है तो अनुज्ञापिधारी इस बात की सूचना अनुज्ञापन प्राधिकारी को तुरंत देगा ।
Magazine shall at all times be kept in state of good repair (or maintained in good condition). The licensee shall report to licensing authority forthwith, if the magazine becomes unfit for storage of any explosives for any reason whatsoever.
मैगजीन का अनुज्ञापिधारी इन नियमों के नियम 24 के उप-नियम 3 के अनुसार त्रैमासिक विवरणी प्रस्तुत करेगा ।
The licensee of the magazine shall submit quarterly return as per sub-rules (3) and (4) of rule 24 of these rules.
14. यदि सुरक्षा दूरी का कोई अधिकमण होता है तो उसकी सूचना अनुज्ञापन प्राधिकारी को आवश्यक सलाह और कार्यवाही के लिए तुरंत दी जाएगी ।
Any encroachment of the safety distance shall be immediately communicated to the licensing authority for necessary advice and action.
15. यदि कोई विस्फोटक विनष्ट हुआ अथवा अनुपयोगी जाया जाता है तो उसकी सूचना अनुज्ञापन प्राधिकारी को, सलाह प्राप्त करने के लिए, तुरंत दी जाएगी ।
The licensing authority shall be immediately informed for advice if any explosive is found deteriorated or unserviceable.
16. विस्फोटकों के पैकेटों के चट्टे इस प्रकार लगाए जाएंगे कि कम से कम एक व्यक्ति भण्डार किए गए सभी 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.
तडित चालकों की भूमि के लिए प्रतिरोध यथासंभव न्यूनतम होगा और किसी भी दशा में 10 ओह्म से अधिक नहीं होगा ।
The resistance of the lightning conductor to earth shall be as low as possible and in no case be more than 10 ohms.
17. मैगजीन के चारों ओर 15 मीटर की दूरी के अंतर्गत कोई शुल्क घास या झाड़ी या ज्वलनशील सामग्री नहीं रहने दी जाएगी ।
A distance of 15 meters surrounding the magazine or store house shall be kept clear of dried grass or bush or flammable materials.
18. विस्फोटकों के प्रत्येक पैकेट की, जब उसे मैगजीन के भीतर लिया जा रहा हो, ठीक दशा जानने के लिए परीक्षा की जाएगी ।
Every package of explosive at the time of bringing inside the magazine shall be examined for its sound condition.
19. किसी मैगजीन / 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.

20. विस्फोटकों के खाली पैकों को शीघ्रतः वहां से हटा दिया जाएगा और नष्ट कर दिया जाएगा।
Empty packages of the explosives shall be removed at the earliest and destroyed.
21. अनुज्ञापन अधिकारी और कर्मचारी 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 अनुज्ञत 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 अनुज्ञापन अधिकारी को अनुज्ञत परिसरों या मशीनरी, दूध या उपकरण में ऐसी कोई मरम्मत या परिवर्तन या परिवर्तन करने या सिफारिशों को लागू करने को लिखित रूप में सूचित करता है जो परिसर के अंदर या बाहर या व्यक्तियों की सुरक्षा के लिए आवश्यक है, अनुज्ञापन अधिकारी 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 licence shall execute the recommendations and report compliance within the period specified by such authority.
24. अनुज्ञापन अधिकारी मैगजीन में रखने और बिक्री के लिए प्राधिकृत विस्फोटक सूची में उल्लिखित अनुज्ञत फैक्टरी या कंपनी से प्राधिकृत विस्फोटक / आतिशबाजी या सुरक्षा पत्ती खरीदेगा।
The licensee shall purchase authorised explosives/ fireworks or safety fuse as mentioned in the list authorised explosives from a licensed factory or company for possession and sale from the magazine.
25. निम्न से अधिक ध्वनि स्तर उत्पादित करने वाले आतिशबाजियों पटाखों की बिक्री और रखने के लिए -
(क) जो फटने की जगह से चार मीटर की दूरी पर है, 125 डी.बी.(ए1) या 145 डी.बी.(सी) पी.के. प्रतिबंधित होंगे;
(ख) श्रृंखला (जुड़े हुए पटाखे) को गठन करने वाले व्यक्तिगत पटाखों के लिए उपर्युक्त उल्लिखित सीमा 5 लॉग₁₀(N) डी.बी. (सी) पी.के. प्रतिबंधित होंगे;
The possession and sale of fire-crackers generating noise level exceeding;
a) 125 dB(A) or 145 dB(C)pk at 4 meters distance from the point of bursting shall be prohibited;
b) For individual fire-cracker constituting the series (joined fire-crackers), the above mentioned limit be reduced by 5 log₁₀(N) dB, where N = number of crackers joined together.
26. आग या विस्फोट द्वारा दुर्घटना या नुकसान पटाखों की कमी या चोरी, तुरंत पास के पुलिस थाने और अनुज्ञापन प्राधिकारी और अनुज्ञापन प्राधिकारी के स्थानीय कार्यालय को रिपोर्ट की जाएगी।
Accidents by fire or explosion and losses, shortage or theft of explosives shall be immediately reported to the nearest police station and the licensing authority and local office of the licensing authority.

अतिरिक्त शर्तें / Additional Conditions :

1. अनुज्ञापन अधिकारी 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, चेन्नई | South Circle, Chennai
उप मुख्य विस्फोटक नियंत्रक
Deputy Chief Controller of Explosives
एरणाकुलम Ernakulam

Safety distances required to be kept clear around magazine for high explosives or fire works or factory licence number E/SC/KL/22/746(E32353) in form LE-3 granted to Shri C.G.George, Chittath House, Kuthuparamba post, Kerala.

Type of Structure(s)		Safety distances meters	
Inside Safety Distances(ISD)		M	UM
1	Room or Workshop used in Connection with the Magazine	13	19
2	Any other Explosives Magazine or store House or Factory of the Applicant		
3	Magazine Office		
Middle Safety Distances(MSD)			
4	Magazine Keeper's or Chowkidar's Dwelling house		
5	Railway including Minerals and Private Railways		
6	Canal (in active use) or other navigable water		
7	Dock or Pier or Jetty		
8	Public Highway or Public Road		40
9	Private Road which is PRINCIPAL means of access to a Temple, Mosque, Church, Gurudwara or other places of worships, Hospital, College, School or Factory		
10	River Embankment or Sea Embankment or Public Well		
11	Reservoir or Bounded tank/rope way		
12	Windmill or Solar panel for Power Generation		
Outside Safety Distances(OSD)			
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		
Overhead Electric lines			
27	Electric Power over head Transmission Lines above 440V		45
28	Electric Power over head Transmission Lines upto 440V		15

The Date : 16/12/2005

Amendments :

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 23/08/2012
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 22/07/2014
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 13/01/2015
- Amendment in Drawings/Facilities/Premises dated : 23/08/2016
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 22/12/2017

For Joint Chief Controller of Explosives
South Circle, Chennai

उप मुख्य विस्फोटक निर्यंत्रक
Deputy Chief Controller of Explosives
एरणाकुलम Ernakulam



നമ്പർ: 283/2019-2020/A-5/4985/19

തീയതി: 29/10/2019

കുന്നോത്തുപറമ്പ് ഗ്രാമപഞ്ചായത്ത്

തൂവക്കുന്ന് പി.ഒ., കണ്ണൂർ (ജില്ല)

പിൻ: 670693, ഫോൺ: 4902391430, ഇ-മെയിൽ: secretaryknp@gmail.com

വ്യവസായം, വാണിജ്യം, സംരഭകത്വം, മറ്റ് സേവനങ്ങൾക്കുള്ള ലൈസൻസ്**(കെ.പി.ആർ ആക്ട് സെക്ഷൻ 232, FACTEOS ലൈസൻസ് ചട്ടങ്ങൾ 1996)**

ലൈസൻസിയുടെപേര്	സി. ജി ജോർജ്ജ്		
ലൈസൻസിയുടെ മേൽവിലാസം	ചിറ്റേത്ത് ഹൗസ് , കുന്നോത്തുപറമ്പ് -670643 , 8113041110		
സ്ഥാപനത്തിന്റെ പേരും, സ്ഥലനാമവും	M/s QUARRY OWNED BY SRI GEORGE, CHENDAYAD, PANOOR , KANNUR DIST		
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	കരിങ്കൽ ഖനനം നടത്തുന്നതിന്		
വാർഡ് നമ്പർ/കെട്ടിട നമ്പർ	III/RS NO88/1,89/2 B,139/1,147/2		
ലൈസൻസ് കാലാവധി	01/11/2019 മുതൽ	31/03/2020 വരെ	
ലൈസൻസ് ഫീസ് മോട്ടോർ ഫീസ് തൊഴിൽ നികുതി	തുക	രസീത് നമ്പർ	തീയതി
	5000 /- രൂപ	118040110154	18/03/2019
		118040110154	18/03/2019

ലൈസൻസ് അനുവദിക്കുന്നതിന് ഹാജരാക്കിയ നിരാക്ഷേപ പത്രങ്ങളുടെ വിശദാംശങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാര സ്ഥാപനം)

- പൊലുഷൻ കൺട്രോൾ ബോർഡിന്റെ 08/09/2019 ലെ PCB/DO-KNR/ICO/R16KAN3193160/2019നമ്പർ നിരാക്ഷേപ പത്രം, (VALIDITY31/05/2021)
- ചീഫ് കൺട്രോളർ ഓഫ് എക്സ്പ്ലോസീവ് ലൈസൻസ് (No. E/SC/KL/22/746(E32353) Renewed upto 31/03/2024),
- Quarrying Lease Validity 15/01/2022



PRASAD, V. V.
Secretary

Kunnothparamba Grama Panchayat
P. O. Thuvakkulam

കുന്നോത്തുപറമ്പ് ഗ്രാമപഞ്ചായത്ത്
Ph. 9496049130



KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/DO-KNR/ICO/R16KAN3193160/2019

Date of issue :08/09/2019

INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No : PCB/KNR/ICO-R/1015/2019

Ref : 1.Consent No. PCB/KNR/ICO/948/2016 dated 23/11/2016

The ' Integrated Consent to Operate' issued as per reference above to M/s HOLY FAMILY STONE CRUSHER & HOLLOW BRICKS,CHERIKAL, CHERUPARAMBA.P.O., PANOOR, KANNUR DT - 670693 is hereby renewed up to 31/05/2021 and issued to M/s HOLY FAMILY STONE CRUSHER & HOLLOW BRICKS,CHERIKAL, CHERUPARAMBA.P.O., PANOOR, KANNUR DT - 670693 The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

I. GENERAL

S.No.	Items	Description
1	VALIDITY	31/05/2021
2	CATEGORY	RED
3	CAPITAL INVESTMENT	85.0 LAKHS
4	ANNUAL FEE	22000/-
5	TOTAL FEE REMITTED	1,10,000/-(Rs.59920 pending with Board)
6	ACTIVITY	Granite quarrying in 4.0 Hectare plot survey No. RS No. 88/1.89/2B.147/2.139/1 Village KOLAVALLOOR Taluk THALASSERY

II. Stack Details

Stack No.	Source of Emission	Emission Rate(Nm3/Hr)	Stack Height above		Control Equipment
			Ground Level(In Meters)	Roof Level(In Meters)	

III. CONDITIONS

3.1 Application for the renewal shall be submitted before 31/03/2021 with EC.

3.2 If any statement in the affidavit furnished along with the renewal application is found false, the consent issued will be revoked and further prosecution will be launched against the unit.

3.3 There shall be a minimum distance of 50 m from the boundary of the quarry to the nearest residence, places of worship, railway line, bridge, river, lake, public building and road having public transport system.

3.4 This consent is issued subjected to Environmental Clearance 75/2016 by State Environment Impact Assessment Authority letter No.623/SEIAA/EC4/4806/2014 Dated 01-06-2016

All other conditions of the Integrated Consent to Operate issued as per reference above remain unchanged.

**ANITA
KOYAN**

Digitally signed by
ANITA KOYAN

Date: 2019.09.28
14:05:24 +05'30'

SIGNATURE & SEAL OF ISSUING AUTHORITY
ENVIRONMENTAL ENGINEER

DATE :14/09/2019



To
C.G. GEORGE, CHITTETH HOUSE, KOOTHUPARAMBA.P.O., KANNUR DT - 670643

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

Annexure 6





GEMS



GLOBAL Environment & Mining Services

(Consulting Engineers, Mine designers, Geologists & Surveyors)

3rd Main Road, Basaveswara Badavane,

HOSPET - 583201, Dist... Bellary (Karnataka)

Ph : +91 8394 229433 & 295018

e-mail : gems_tpt@yahoo.com,

Website : www.globalmining.in

GEMS-LD/TF/11/01

Date: 19.02.2020

Analysis Report of Ambient Air Quality Monitoring

- 1 Name of the Customer/Address : Granite Building Stone Quarry of
Mr. C. G. George,
Extent: 4.0 Ha. (9.8840 Acres)
Sy.Nos:86/2,87,88/2,88/3,88/1,89/2B,147/2,139
Kolavallur 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-TC53232000000062F

Result

Sl No.	Date	Parameters in $\mu\text{g}/\text{m}^3$				
		PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Lead in PM
1	17.02.2020	41.9	15.2	12.4	11.3	BDL
NAAQ Standards 2009		100	60	80	80	1.0

PM₁₀ - IS 5182 (Part 23): 2006 (RA 2017)PM_{2.5} - USEPA 2001SO₂ - IS 5182 (Part 2): 2001 (RA 2017) BDL (<3.0)NO₂ - 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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GEMS-LD/TF/11/01

Date: 19.02.2020

Analysis Report of Ambient Air Quality Monitoring

- Granite Building Stone Quarry of
Mr. C. G. George,
Extent: 4.0 Ha. (9.8840 Acres)
Sy.Nos:86/2,87,88/2,88/3,88/1,89/2B,147/2,139
Kolavallur Village, Thalassery Taluk,
Kannur District, Kerala State.
- 1 Name of the Customer/Address : **Ambient Air Quality Monitoring**
 - 2 Sample Description : **GLOBAL Environment & Mining Services**
 - 3 Sample Collected By : **24 Hour of Sampling**
 - 4 Duration of the Monitoring : **(A1) Core zone**
 - 5 Location of Monitoring : **ULR-TC532320000000061F**
 - 6 Report No

Result

Sl No.	Date	Parameters in $\mu\text{g}/\text{m}^3$				
		PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Lead in PM
1	15.02.2020	49.3	19.6	12.4	11.8	BDL
NAAQ Standards 2009		100	60	80	80	1.0

PM₁₀ - IS 5182 (Part 23): 2006 (RA 2017)PM_{2.5} - USEPA 2001SO₂ - IS 5182 (Part 2): 2001 (RA 2017) BDL (<3.0)NO₂ - IS 5182 (Part 6): 2006 (RA 2017) BDL (<5.0)

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

BDL - Below Detectable Limit.

In. Lee
Analyzed By
J.M. Thippeswamy
Chemist

P.R.
Authorized Signatory
K. Ramakrishna Reddy
Technical Manager

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e-mail : gems_hp@yahoo.co.in,

Website : www.globalmining.in

GEMS-LD/TF/11/01

Date: 19.02.2020

TEST REPORT OF AMBIENT NOISE LEVEL MONITORING

- 1 Name of the Customer/Address : Granite Building Stone Quarry of
Mr. C. G. George,
Extent: 4.0 Ha. (9.8840 Acres)
Sy.Nos:86/2,87,88/2,88/3,88/1,89/2B,147/2,139
Kolavallur Village, Thalassery Taluk,
Kannur District, Kerala State.
- 2 Sample Description : Ambient Noise Level monitoring
- 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 : 17.02.2020
- 7 Report No : ULR-TC532320000000063F

Result

Date	15.02.2020	16.02.2020
Name of the Location	Core Zone	Buffer zone
Time (hrs)	N1	N2
6.00	37.2	41.9
7.00	39.1	42.4
8.00	41.3	45.1
9.00	50.2	44.1
10.00	52.7	45.2
11.00	48.6	46.3
12.00	56.4	48.1
13.00	57.2	50.0
14.00	52.8	51.1
15.00	50.2	52.1
16.00	52.3	53.0
17.00	53.2	47.3
18.00	54.4	46.2
19.00	49.7	46.8
20.00	45.7	44.5
21.00	39.0	43.2
22.00	36.0	42.4
23.00	38.6	38.4
00.00	36.0	38.0
01.00	34.2	36.0
02.00	37.0	35.3
03.00	35.2	37.5
04.00	36.6	36.6
05.00	34.8	38.7

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Note:

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- Water Samples will be destroyed after 150 days. Minerals 3 Months, Filter papers & Thinbles 7 Days and ILC samples from the date of issue of Month test certificate unless otherwise specified.
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ULR-TC532320000000063F		
L max	57.2	53.0
L min	34.2	35.3
Ld	52.0	48.6
Ln	36.6	39.2
Leq	50.7	48.2

Area Code	Category of Area	Limit in dB(A) Leq	
		Day Time	Nighttime
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Area	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.	



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e-mail : gems_hpt@yahoo.com,

Website : www.globalmining.in

G
EMS-LD/TF/11/01
Date: 19.03.2020

ANALYSIS REPORT OF WATER QUALITY DATA

- 1 Name of the Customer/Address : Granite Building Stone Quarry of
Mr. C. G. George,
Extent: 4.0 Ha. (9.8840 Acres)
Sy.Nos:86/2,87,88/2,88/3,88/1,89/2B,147/2,139
Kolavallur 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 : 14.03.2020
- 5 Date of sample Received : 16.03.2020
- 6 Date of sample Analyzed : 19.03.2020
- 7 Report Number : ULR-TC532320000000064F

Result

Sl. No.	Parameters	Unit	Result	Test Protocol	Requirement/Limit IS : 10500 : 2012	
					Acceptable	Permissible
1.	pH	-	6.7	APHA 22 nd 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	0.44	APHA 22 nd Edition 2012 2130 B (Pg No. 2-14)	1	5
6.	Conductivity	µS/cm	194	APHA 22 nd Edition 2012 2510 B (Pg No. 2-54)	-	-
7.	Total Dissolved Solids	mg/L	167	APHA 22 nd Edition 2012 2540 B (Pg No. 2-65)	500	2000
8.	Total Alkalinity as CaCO ₃	mg/L	51	APHA 22 nd Edition 2320 B (Pg No. 2-35)	200	600
9.	Total Hardness as CaCO ₃	mg/L	114	APHA 22 nd Edition 2012 2340 C (Pg No. 2-46)	200	600
10.	Calcium as Ca	mg/L	28	APHA 22 nd Edition 2012 3500 Ca B (Pg No. 3-84)	75	200
11.	Magnesium as Mg	mg/L	8.1	APHA 22 nd Edition 2012 3500 B-Mg By Calculation	30	100
12.	Chloride as Cl	mg/L	18.2	APHA 22 nd Edition 2012 4500 Cl (Pg No. 4-72)	250	1000
13.	Sulphate as SO ₄	mg/L	79	APHA 22 nd Edition 2012 4500 SO ₄ - F (Pg No. 4-190)	200	400
14.	Nitrates as NO ₃	mg/L	4.10	APHA 23 rd Edition - 4500 NO ₃ - E (Pg No. 4-131 to 4-132)	45	NR
14.	Nitrate Nitrogen as NO ₃	mg/L	14	APHA 22 nd Edition 2012 4500 NO ₃ E (Pg No. 4-125 to 4-127)	45	No relaxation

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ULR-TC532320000000064F

15.	Fluoride as F	mg/L	0.68	APHA 23 rd Edition 2017 4500 F-D (Pg No. 4-90 to 4-91)	1.0	1.5
16.	Iron as Fe	mg/L	0.22	APHA 23 rd Edition - 3500 Fe-B (Pg No. 3-80 to 3-82)	0.3	NR
17.	Sodium as Na	mg/L	8.11	APHA 23 rd Edition 2017 Na 3500 B (Pg No. 3-99 to 3-100)	-	-
18.	Potassium as K	mg/L	0.78	APHA 23 rd 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 ₂	mg/L	NIL	APHA 23 rd Edition 5220 C (Pg No. 5-18 to 5-19)	-	-
21.	Oil & Grease	mg/L	NIL	APHA 23 rd Edition 5520 B (Pg No. 5-41 to 5-42)	0.5	NR
22.	Cadmium as Cd*	mg/L	<0.001	APHA 23 rd Edition-3111-B (Pg No. 3-20 to 3-21)	0.003	NR
23.	Copper as Cu	mg/L	<0.001	APHA-23 rd Edition 3111-B (Pg No. 3-20 to 3-21)	0.02	1.5
24.	Nickel as Ni	mg/L	<0.001	APHA-23 rd Edition-3111-B (Pg No. 3-20 to 3-21)	0.02	NR
25.	Zinc as Zn	mg/L	<0.1	APHA-23 rd Edition-3111-B (Pg No. 3-20 to 3-21)	5	15
26.	Salinity*	PPT	NIL	APHA-23 rd Edition-3111-B (Pg No. 3-20 to 3-21)	-	-
27.	Total Phosphorous	mg/L	<0.01	APHA-23 rd Edition 4500-D (Pg No. 4-154)	-	-
28.	Total Coliforms*	MPN/ 100ml	Ab	APHA 23 rd Edition 9222 B (Pg No. 9-78)	-	-
29.	Faecal Coliforms	MPN/ 100ml	Ab	APHA 23 rd Edition 9222 D (Pg No. 9-85)	-	-
30.	Phyto Plankton*	Unit/L	Ab	APHA 23 rd Edition 10200 F (Pg No. 10-17)	-	-

Note: BDL: Below Detectable Limit

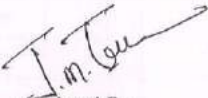
Ag: Agreeable


NR: No Relaxation

RA: reaffirmed

Ab: Absent

End of report


 Analyzed By
 Chemist


 Authorized Signatory
 Technical Manager

- Approved by NABL & Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
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