ENVIRONMENT CLEARANCE COMPLIANCE REPORT (April 2019-September 2019)

for

GRANITE BUILDING STONE QUARRY (Minor Mineral)

Extent: 0.7082 Ha. (1.7499 Acres)

At

Sy No. : 156
Village : Puthur
Taluk : Thalasery
District : Kannur
State : Kerala.

'Granite Building Stone Quarry of Mr. C.G. 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. 04/2018 dated 23/02/2018.

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 Permit 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 is being 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 local species saplings. Plantation at other places will be undertaken in a phased manner after starting Quarrying operations.
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.	All civil structures made for arresting silt will be de silted before onset of Monsoon.
6	Fencing must be maintained properly all around the lease area.	The entire lease area is fenced and is well maintained.

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.	CSR is projected keeping in mind the requirements of the locality. CSR have be carried out. Remaining will be undertaken in a phased manner shortly. (Photos are attached as Annexure-8)
8	Appropriate sign boards should be displayed	Signboards have been displayed. (Photos are attached as Annexure-4)
9	The blasting time must be displayed and strictly adhered to.	Blasting time is displayed. (Copy is attached as Annexure-4)
10	Dust suppression mechanism must be in place.	Water tankers with sprinklers are in use.
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 will be 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 or by manual means.
16	Permanent boundary pillars should be fixed by the proponent before commencing quarrying.	Permanent boundary pillars have been fixed. (photos are attached as Annexure-5)
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	Coir mats shall be used to cover waste dumps. Proper drainage

	shall be provided so that water is properly diverted away from the dumps slopes with no disturbance to the stability of the slopes.	system shall be provided so as to avoid destabilizing of dumps.
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 as specified.
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 shall be made in October 2018.
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.	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 will be trained to render first aid in case of emergencies.
2	Wholesome drinking water should be provided.	Wholesome potable drinking water is provided
3	Premises should be maintained as wet to suppress the dust.	Dust will be suppressed at the source.
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. (photo of the resting place ia attached as Annexure 6)

6	'No Smoking' board should be exhibited according to COTPA act.	'No Smoking' board is exhibited. (Copy is attached as Annexure-4)
7	Work should not be done in night.	Work is done only during day light.
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. (photo of the board is attached as Annexure-4)
9	Approach roads should be maintained properly	Approach roads are well maintained.

GENERAL CONDITIONS

SI No	Condition	Compliance Status
1	Rainwater harvesting facility should be installed as per prevailing provisions of KMBR/KPBR, unless otherwise specified.	Rain Water harvesting shall 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.	Local species saplings procured from Forest department and planted before onset of monsoons.
4	Maximum Possible Solar Energy generation and utilization shall be ensured as an essential part of the Project.	Mine operates only during daylight hence there is no need for any additional lighting.
5	Sprinklers shall be installed and used in the Project Site to contain dust emissions.	Water tankers with sprinklers are in use.
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 is projected based on requirements of the locality. CSR have be carried out. (Photos are attached as Annexure-8)
	The Lease area will be fenced off with barbed wires to a minimum height of 4 ft	Lease area is fenced off.

9	around, before starting of Mining. All the boundary indicators (boards, stores, markings, etc.) shall be protected at all times and shall be conspicuous.	Sign boards have been erected at prominent places. (Photos are attached as Annexure-5)
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.	Necessary precautions while blasting is taken.
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 33/48mm 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 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 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. Delay detonators are used.
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 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 are 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.	120 nos. local species saplings have been procured from the Forest dept, 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-1)
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.	No dwellings are situated within 100 M 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.
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. (Copy of the consent is attached as Annexure- 2)

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31	All other statutory clearances should be	All required statutory clearances
	obtained, as applicable, by project	obtained.
	proponents from the respective competitive	The DGMS permission is under
	authorities including that for blasting and	process.
	storage of explosives.	8
32	In the case of any change(s) in the scope of	There is no change in the scope of
499,000	the Project, extent, quantity, process of	mining.
	mining technology involved or in any way	
	affecting the environment	
	The state of the s	
	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	
12	apply and get the approval of this Authority.	
33	The Authority reserves the right to add	Agreed.
	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.	
-	bound and satisfactory manner.	Agreed
34	The stipulations by the Statutory Authorities	Agreed
34	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)	
	Act1981, the Environment (Protection)	
	Act,1986, the Public Liability (Insurance)	
	Act,1991 and EIA Notification,2006	1
35	The project proponent should advertise in at	Advertisements informing EC
	least 2 newspapers widely circulated in the	accordance to the Project is done
	region, one of which (both the advertisement	in 2 nos newspapers. (photos of
	and the newspaper) shall be in the	the newspaper advertisement is
	vernacular language informing that the	attached as Annexure-3)
	Project has been accorded Environment	
	Clearance and the copies of the Clearance	
	letters are available with the State	
	Environment Impact Assessment Authority	
	(SEIAA) office and may also be seen on the	
	website of the Authority at	
	www.sejaakerala.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 Grama Panchayat on.
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 is submitted as stipulated. (photos and monitoring reports have been attached as Annexure-7)
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-4)
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 or modifications in the mine shall be carried out without prior approval of the SEIAA, as applicable.	Prior approval from the SEIAA 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,	No natural water course is obstructed. Necessary safeguard measures will be taken to protect first order streams if originating

	if any, originating from the mine lease shall be taken.	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 all places appropriately. (photos and monitoring reports have been attached as Annexure-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	Available top soil will be used at the Green belt for plantation. OB generated is used for plantation purposes along the Green/Safety zone.
	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	
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 are 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 the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	Regular water sprinkling is done on haul roads with water tankers.
46	Fugitive dust emissions from all sources should be controlled regularly. Water spraying arrangements on haul roads, loading and unloading and transfer points	Fugitive dust emissions is controlled.

	should be provided and properly maintained.	
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.	Funds earmarked for environment protection measures and CSR will be made available.
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 condition in the interest of the environment protection	Agreed
54	The above conditions shall prevail not withstanding anything to the contrary, inconsistent or simplified, contained in any other permit, license on 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.
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

For 'Granite Building Stone Quarry Mr. C.G. George'.

Mr. C.G. George

(Owner) Date: 25.12.2019



भारत सरकार

GOVERNMENT OF INDIA पेट्रोलियम तथा विस्कोटक सुरक्षा संगठन (पेसो)

PETROLEUM AND EXPLOSIVES SAFETY ORGANISATION (PESO) कार्यालय उप-मुख्य विरक्षोटक नियंत्रक

OFFICE OF THE DEPUTY CHIEF CONTROLLER OF EXPLOSIVES केन्द्रिय मवन, काकनाङ, एरनाकुलम, कोव्यि, (केरल) - 682037

Kendriya Phavan, Kakkanad, Ernakulam, Kochi, (KERALA) - 682037 Fax: (0484)2427276, Ph: 2427286, 2427296

No. E/SC/KL/22/746(E32353)

Dated:11.01.2010

To

7220

Shri C.G. George Chitteth House Koothuparamba P.O. Kannur Dist

Koothuparamba P.O Kannur Dist Sub: Explosive Magazin

Sub: Explosive Magazine at Sy.88/1, Kolavallur, Thalassery, Kannur Dist. Licence No. E/SC/KL/22/746(E32353) in Form LE-3- your request for permission to use Explosives for extraction of Building Stone/ Granite – Reg.

Dear Sir.

It is noted that you have been issued quarrying lease Nos. 503/2009-2010/9867/M3/2009 and 504/2009-10/9868/M3/2009 dated 05.1.2010 by the Director of Mining and Geology, Trivandrum for extraction of Minor Minerals from Sy. No. 156 and 151/1 of Puthur Village, Thalassery Tk., Kannur District respectively under Kerala Minor Mineral Concession Rules, 1967.

The extraction of building stone/granite using explosives comes under the purview of Mines Act, 1952 and the use of explosives in areas coming under Mines Act is governed by Metaliferrous Mines Regulations, 1961. The competent authority for the administration of the above Act and regulations framed there under for the State of Kerala is Director of Mines Safety, Chennai. The applicability of Explosives Rules, 1983 is limited to that the explosives used in blasting operations in areas coming under Mines Act shall be of a class and make authorized by Chief Controller of Explosives, Nagpur and such explosives shall be stored in an explosive magazine duly licensed under Explosives Rules, 1983.

You may obtain necessary licenses/ clearance from various statutory bodies for extraction of minor minerals as mentioned below:

 The Quarrying permits/lease under Kerala Minor Mineral Concession Rules, 1967 revalidated from time to time.

 Permission/clearance from State Pollution Control Board under Environment (Protection) Act, 1986.

3. Licence from local Panchayat under Panchayat Act.

Permission/clearance under Mines Act, 1952.

Subject to the compliance of the above requirements as far as this office is concerned there would be no objection to the use of explosives from the subject magazine for extraction of minor minerals

This permission may be deemed to be withdrawn if any of the conditions subject to which the permission has been granted, has not been complied with/ violated. You may submit the copies of permissions/ licenses obtained under the above statutes for reference and record of this office.

(C.R. Surendranathan)

Dy. Chief Controller of Explosives.

Yours faithfully.

C. S. Britishing

Copy to:

The Jt. Chief Controller of Explosives, South Circle, Chennai.

The District Magistrate/ Addl. District Magistrate, Kannur Dist.



ലൈസൻസ് നമ്പർ \$ 12018-19.

man 10.04.2018

1994 ലെ കേരളാ പഞ്ചായത്ത് രാജ് ആക്ട് (1994 ലെ 13) 232, 233, 234, 254 എന്നീ വകുപ്പൂകളും അതേ തുടർന്നുള്ള ചട്ടങ്ങളും അനുസരിച്ചു നൽകുന്ന

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Semunay

Kunnothparamba Grama Panchayat

Kannur Dist, Pin 670693





KERALA STATE POLLUTION CONTROL BOARD

FILE NO.: PCB/KNR/ICO/673/2010

Date of issue :17/01/2017

INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No: PCB/KNR/ICO-R/889/2016

Ref : 1. PCB/KNR/ICO/94/2010 DATED 10/08/2010 2. PCB/KNR/ICO/R1-343/2013 DATED 31/08/2013

The 'Integrated Consent to Operate' issued as per reference above to M/s QUARRY OWNED BY SRI. C.G. GEORGE, ARAMKULAM, PANOOR, KANNUR DT - 670693 is hereby renewed up to 31/10/2019 and issued to M/s QUARRY OWNED BY SRI. C.G. GEORGE, ARAMKULAM, 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	31/10/2019
2	ANNUAL FEE	Rs 4420/-
3	TOTAL FEE REMITTED	Rs 13260/-
4	EXTENT OF AREA	0.7082 HECTARE IN SURVEY NO 156 OF PUTHOOR VILLAGE

II. Stack Details

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

III. CONDITIONS

2.2 This integrated consent, unless withdrawn earlier and subject to condition No.1.1 shall be valid up to 31/10/2019. In case the operation of the quarry is to be continued thereafter application for the renewal of the consent shall be submitted through Board's online web portal www.krocmms.nic.in before 31/7/2019



- 3.13 Stands Deleted.
- 3.16 The operation of the unit shall be commenced only after obtaining clearance from all concerned authorities.
- 3.17 The consent issued from the Board will be valid only up to the period of validity of clearances from other concerned authorities. The consent is only with respect to the powers vested under the Water Act 1974, Air Act 1981 and Rules there under.
- 3.18 The PM2.5 in ambient air at the boundary shall not exceed 60 µg/m3

engineer, Kerala

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

DATE:17/01/2017

SIGNATURE & SEAL OF ISSUING AUTHORITY

Krishnan M.N. Environmental Enginee

То

Sri. C.G. GEORGE

QUARRY OWNED BY SRI. C.G. GEORGE, ARAMKULAM, PANOOR, KANNUR DT - 670693

Newspaper Advertisements in The Hindu and Deepika dated 30/05/2018





Sign Boards













Boundary Pillars and Fencing





Resting Place



Monitoring photos







GLOBAL Environment & Mining Services

(Analytical Laboratory, Consulting Engineers, Mine designers, Geologist & Surveyors) 3 at Main Road, Basaveswara Badavane, HOSAPETE - 583201,

Dist., Bellary (Kamataka) Ph: +91-8394 651111, 229433

e-mail: gems hpt@vuhoo.com, gemslab.hpt@gmail.com,Website: www.globalmining.in



Certificate No: TC-5323

GEMS-LD/TF/11/01 Date: 25.07.2019

Analysis Report of Ambient Air Quality Monitoring

Granite Building Stone Quarry of

Shri. C.G. George,

Name of the Customer/Address

: Extent: 0.7082 Ha. (1.7499 Acres)

Sy. No. 156, Puthur Village, Talassery Taluk,

Kannur District, Kerala State

2 Sample Description : Ambient Air Quality Monitoring

3 Sample Collected By : GLOBAL Environment & Mining Services

4 Particulars of Sample Collected : Combined Sampler (GTI-241)

5 Duration of the Monitoring : 24 Hour of Sampling

6 Name of the Station : Core zone area (A1)

7 Sample Received : 25.07.2019

8 Date of Analysis

: 27.07.2019

Date of Analysis Completion

: 30.07.2019

10 Sample Code

: GEMS/GBSQPGPL/AAQM/2019-20/1674

11 Report Number

: ULR-TC53231900000563F

Results

Date of	PM10 [μg/m³]	PM2.5 [μg/m³]	SO ₂ [μg/m³]	NO ₂ [μg/m ³]	
Monitoring	IS: 5182: (Part 23) 2006 (RA 2012)	USEPA 2001	IS: 5182: (Part 2) 2001 (RF 2014)	IS: 5182: (Part 6) 2006 (RF 2014)	
25.07.2019	45	24.5	13.6	12.8	
Standard	100	60	. 80	80	

INFERENCE

As per CPCB Standards,

Report Status: - Measured Values for the above parameters are within the limit.

End of Report

Analysed By J.M. Thippeswamy Chemist



Note:

The result listed refers only to the rested samples & applicable parameters. Endorsement of products is nother unifored nor implied.

Water Samples will be destroyed after 15 Days, Minerals 3 Months, Fifter papers & Thimbles 7 Days and ILC samples from the date of issue of Month test certificate unless otherwise.

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GLOBAL Environment & Mining Services

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Dist., Bellary (Karnataka).Ph: +91-8394 651111, 229433

e-mail: gems hpt@vahoo.com, gemslab.hpt@gmail.com,Website: www.globalmining.in



Certificate No: TC-5323

GEMS-LD/TF/11/01 Date: 25.07.2019

Analysis Report of Ambient Air Quality Monitoring

Granite Building Stone Quarry of

Shri. C.G. George,

1 Name of the Customer/Address : Extent: 0.7082 Ha. (1.7499 Acres)

Sv. No. 156, Puthur Village, Talassery Taluk,

Kannur District, Kerala State.

Sample Description : Ambient Air Quality Monitoring

3 Sample Collected By : GLOBAL Environment & Mining Services

4 Particulars of Sample Collected : Combined Sampler (GTI-241)

5 Duration of the Monitoring : 24 Hour of Sampling

6 Name of the Station : Puthur (A2) 7 Sample Received : 25.07.2019 8 Date of Analysis : 27.07.2019

Date of Analysis Completion 9 : 30.07.2019

10 Sample Code : GEMS/ GBSQPGPL/AAQM/2019-20/1675

11 Report Number : ULR-TC53231900000564F

Results

Date of	PM10	PM2.5	SO ₂	NO ₂
	[μg/m³]	[μg/m³]	[μg/m³]	[μg/m³]
Monitoring	IS: 5182: (Part 23)	USEPA	IS: 5182: (Part 2)	IS: 5182: (Part 6)
	2006 (RA 2012)	2001	2001 (RF 2014)	2006 (RF 2014)
25.07.2019	42.4	21.6	12.2	11.8
Standard	100	60	80	80

INFERENCE

As per CPCB Standards,

Report Status: - Measured Values for the above parameters are within the limit,

End of Report

Analysed By J.M. Thippeswamy Chemist



Note:

The result listed refers only in the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

Water Samples will be destroyed after 15Days. Minerals 3 Months. Fifter papers & Thimbles 7 Days and ILC samples from the date of issue of Month test certificate unless otherwise. specified.
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Name of the Customer/Address

Particulars of Sample Collected

Duration of the Monitoring

Date of Analysis Completion

Date of Sample Received

Sample Code

Report Number

Sample Description

Sample Collected By

e-mail: gems hpt@yahoo.com, gemslab.hpt@gmail.com,Website: www.globalmining.in





Certificate No: TC-5323

GEMS-LD/TF/08/01 Date: 25.07.2019

TEST REPORT OF AMBIENT NOISE LEVEL MONITORING

Granite Building Stone Quarry of

Shri. C.G. George,

Extent: 0.7082 Ha. (1.7499 Acres)

Sy. No. 156, Puthur Village, Talassery Taluk,

Kannur District, Kerala State.

Ambient Noise Level Monitoring

GLOBAL Environment & Mining Services

Digital LCD Sound Level Meter (E0-6080-W8NI)

24 Hour of Sampling

: 25,07,2019

30.07.2019

GEMS/GBSQPGPL/ANLM/2019-20/1676 & 1677

: ULR-TC53231900000565F

Date	25.07.2019	27.07.2019
lame of the Location	Core Zone	Puthur
Time (hrs)	N1	N2
6.00	43.4	41.3
7.00	45.0	42.7
8.00	46.5	42.7
9.00	51.3	46.5
10.00	53.6	45.8
11.00	54.5	43.4
12.00	56.8	42.4
13.00	55,7	42.4
14.00	56.9	44.2
15.00	54.5	44.5
16.00	56.5	51.7
17.00	55.3	50.3
18.00	. 53.7	49.7
19.00	50.7	47.6
20.00	43.3	45.6
21.00	42.7	44.6
22.00	42.2	41.7
23.00	40.2	39.3
00.00	39.3	39.5
01.00	38.4	37.8
02.00	38.6	36.4
03.00	38.8	36.2
04.00	38.2	36.6
05.00	38.6	36.5
Lmax	56.9	51.7
Lmin	38.2	36.2
Ld	53.71	46.607
Ln	39.99	39.734
Leq	52.7	48.1

End of Report

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is online inferred nor implied.

 Water Samples will be descroyed other 15Days. Minerals 3 Months, Filter papers & Thimbles 7 Days and ILC samples from the date of issue of Month test certificate unless otherwise. writes complex more as expected.

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NOISE: (AMBIENT STANDARDS)

		Limit in c	IB(A) Leq	
Area Code	Category of Area	Day Time	Night Time	
X.	Industrial Area	75	70	
В	Commercial Area	65	55	
C	Residential Area	55	45	
D	Silence Area	50	40	

	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
Note	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.



Note:

- The result fisted rules only to the tested samples & applicable parameters. Endor-senent of products is neither inferred nor implied.

 Water Samples will be descriped after 150ess, Minerals 2 Mooths, Otter papers & Thimbles 2 Days and ILL Camples from the date of issue of Month test certificate unless otherwise specified.

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e-mail: gems hpt@yahoo.com, gemslab.hpt@gmail.com,Website: www.globalmining.in

Certificate No: TC-5323

GEMS-LD/TF/23/01 Date: 25.07.2019

Analysis Report of Drinking Water

Granite Building Stone Quarry of

Shri. C.G. George,

Name of the Customer/Address : Extent: 0.7082 Ha. (1.7499 Acres)

Sy. No. 156, Puthur Village, Talassery Taluk,

Kannur District, Kerala State.

: GLOBAL Environment & Mining Services.

Well Water

Buffer area (WW1)

25.07.2019

: 27.07.2019

30.07.2019

GEMS/GBSOPGPL/WW/2019-20/1678

10 Sample Code 11 ULR Number

4

Sample Collected By

Name of the location

Date of Sample Collection

Date of Sample Received

Date of Sample Analyzed

Sample type

: ULR-TC53231900000566F

SI.	Parameters	Protocol	Unit	Results	Standards as per IS: 10500: 2012		
No.		Trouxur	Cint	Kestills	Desirable Limits	Permissible Limits	
L.	pН	APIIA 22 nd Edition 2012 4500 B (Pg No. 4-92 to 4-96)		7,80	6.5 to 8.5	No Relaxation	
2.	Conductivity	APHA 22 nd Edition 2012 2510 B (Pg No. 2-54)	μS/cm	148	5	-	
3.	Turbidity (NTU)	APHA 22 ^{ed} Edition 2012 2130 B (Pg No. 2-14)	NTU	0.20	T.	5	
4.	Total Dissolved Solids	APHA 22 nd Edition 2012 2540 B (Pg No. 2-65)	mg/L	148	500	2000	
5.	Calcium as Ca	APHA 22 nd Edition 2012 3500 Ca B (Pg No. 3-84)	mg/L	20	75	200	
6.	Magnesium as Mg	APHA 22 nd Edition 2012 3500 B-Mg By Calculation	mg/L	8.20	30	100	
7.	Total Suspended Solids	APHA 22** Edition 2012 2540 B (Pg No. 2-66 to 2-67)	mg/L	1.22	*	91	
8.	Dissolved Oxygen	IS 3025 (part 38)- 1989, JRA = 2014 Winkler titrimetric azide modification	mg/L	7.4	* 40 * 5		
9,	BOD'3 days at 27 ^s C	IS:3025 (part 44) - 1993 , RA-2014,	mg/L	NII.	•	.5	
10	COD as O2	APHA 22nd Edition 2012 2540 B (Pg No. 5-19 to 5-20)	mg/L	NIL			
11.	Dissolved Phosphate as P	IS:3025 (part 38)- 1988; RA - 2014; Stannous ehloride method	mg/L	<0,01	•		
12	Sodium as Na	APHA 22 rd Edition 2012 Na 3500 B (Pg No. 3-97 to 3-98)	mg/L	8.6		3*3	
13	Perassium as K	APHA 22 nd Edition 2012 3500 B (Pi; No. 3-87 to. 3-88)	mg/L	0.56		(40	
14.	Total Hardness as CaCO3	APHA 22th Edition 2012 2340 C (Pg No. 2-46)	mg/L	112	200	600	
15.	Chloride as Cl	APLIA 22 nd Edition 2012 4500 Cl (Pg No. 4-72)	mg/L	16.0	250	1000	
16.	Total Iron as Fe	APHA 3500 B(Pg No. 3-77)	mg/L	0.18	0.30	No Relaxation	
7,	Sulphate as SO4	APHA 22 rd Edition 2012 450() SO42 – E (Pg No. 4-190)	mg/L	102	200	400	
18.	Fluoride as F	APHA 22 nd Edition 2012 4500 F-D (Pg No. 4-87 to 4-88)	mg/L	0.20	1	1.50	
19,	Nitrate Nitrogen as NO3	APHA 22 rd Edition 2012 4500 NO3 E (Pg No. 4-125 to 4-127)	mg/L	10	45	No relevation	
20.	Total Alkolimity as CaCO3	APHA 22 st Edition 2320 B (Pg No. 2-35)	mg/L	36	290	600	

- 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 15Daya, Mineral's 3 Months. Filter papers & Thimbles 7 Daya and ILC samples from the date of issue of Month test certificate unless otherwise
- specified.

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21.	Oil & Greise	APHA 22 nd Edition 2012 5520 B (Pg No 5-40 to 5-41)	mg/L	NIL		
22.	Total Coliform count*	APHA 22 nd Edition 2012 9222 B (Pg No.9-66) Membrane filter technique	MPN/ 100ml	Absent	Shall not be detectable in any 100 ml sample	-
23.	Escherichia coli count*	APHA 22rd Edition 2012 9222 B (Pg No.9-66) Membrane filter technique	E Colv 100ml	Absent	Shall not be detectable in any 100 ml sample	*

End of report

Analysed By Keerthana Yadav B.R. Chemist



Note:

- To result liked refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

 Water Samples will be destroyed after 15 Days, 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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Annuxure-8

			Annuxure-8
CSR C G George , Sy no 156 Puthur Village			
9.7.2019		KERALA GOVT DRIVERS ASSOCIATION	5000
25.5.2019		HARISREE GRANDHALAYAM	5000
24.8.2019		SRIKRISHNA JAYANTHI	5000
15.9.2019		SARVAJANIKA GANESOLSAVAM	25000
28.8.2019		SAMGAMITHRA GANESHA SEVA SAMITHI	5000
15.9.2019	Green belt	purchase Plants	8000
24.10,2019	Medical Aid	M K MUKUNTHAN ,DARSHAN KANDAKUNNU	10000
5.5.2019	Medical Aid	SREEDHARAN KELOTHAN KANDI CHIKITHSA SAHAYAM	5000

List of CSR Annexure

CSR Activities









