



# **ENVIRONMENT CLEARANCE COMPLIANCE REPORT (OCTOBER 2018-MARCH 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**

<b>Sl. No</b>	<b>Conditions</b>	<b>Status of compliance</b>
1	First Aid kit provided in the work site. It shall be periodically maintained properly. Some labourers shall be trained on First Aid.	First Aid kits are provided in the work site and key personnel 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**

<b>Sl No</b>	<b>Condition</b>	<b>Compliance Status</b>
1	Rainwater harvesting facility should be installed as per prevailing provisions of KMBR/KPBR, unless otherwise specified.	Not Applicable. No permanent structures constructed within Mining Lease.
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 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)



9	The Lease area will be fenced off with barbed wires to a minimum height of 4 ft around, before starting of Mining. All the boundary indicators (boards, stores, markings, etc.) shall be protected at all times and shall be conspicuous.	Lease area is fenced off. 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, care has been taken to limit the blast vibrations and the PPV value below 10mm per second.
14	A licensed person should supervise/control the Blasting Operations	Blasting supervision and control is done by a Mining Official having DGMS Certificate.
15	Access road to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.	Access road to the Quarry is tarred.



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)
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 Environment Impact Assessment Authority (SEIAA) office and may also be seen on the website of the Authority at <a href="http://www.seiaakerala.org">www.seiaakerala.org</a> . The advertisement	Advertisements informing EC accordance to the Project is done in 2 nos newspapers. (photos of the newspaper advertisement is attached as Annexure-3)



	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 will be 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-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	No natural water course is obstructed. Necessary safeguard



	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.	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 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 off. In critical areas, use of geo-textiles shall be undertaken for stabilization of the dump. The entire excavated area should continue until the vegetation becomes self-sustaining	Available top soil will be used at the Green belt for plantation. OB generated is used for plantation purposes along the Green/Safety zone.
44	Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development, etc. The drains shall be regularly de silted particularly after monsoons and maintained properly	Catch drains 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	Fugitive dust emissions is controlled.



	spraying arrangements on haul roads, loading and unloading and transfer points 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 notwithstanding anything to the contrary, inconsistent or simplified, contained in any	Agreed



	other permit, license on consent given by any other authority for the same project.	
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: 25.06.2019





भारत सरकार

GOVERNMENT OF INDIA

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो)

PETROLEUM AND EXPLOSIVES SAFETY ORGANISATION (PESO)

कार्यालय उप-मुख्य विस्फोटक नियंत्रक

OFFICE OF THE DEPUTY CHIEF CONTROLLER OF EXPLOSIVES

केन्द्रीय भवन, काकनाड, एरनाकुलम, कोच्चि, (केरल) - 682037

Kendriya Bhavan, Kakkanad, Ernakulam, Kochi, (KERALA) - 682037

Fax: (0484)2427276, Ph: 2427286, 2427296

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

Dated: 11.01.2010

To

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

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:

1. The Quarrying permits/lease under Kerala Minor Mineral Concession Rules, 1967 revalidated from time to time.
2. Permission/clearance from State Pollution Control Board under Environment (Protection) Act, 1986.
3. Licence from local Panchayat under Panchayat Act.
4. 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.

Yours faithfully,

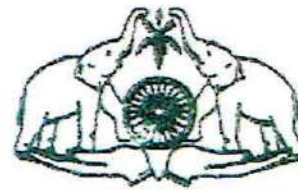
(C.R. Sarendranathan)

Dy. Chief Controller of Explosives.

Copy to:

1. The Jt. Chief Controller of Explosives, South Circle, Chennai.
2. The District Magistrate/ Addl. District Magistrate, Kannur Dist.





ലൈസൻസ് നമ്പർ 5/2018-19

തീയതി 10.04.2018

കുന്നോമ്പാറ ഗ്രാമ പഞ്ചായത്തിൽ നിന്നും

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

വകുപ്പുകളും അതേ തുടർന്നുള്ള ചട്ടങ്ങളും അനുസരിച്ചു നൽകുന്ന

### ഡി & ഒ ലൈസൻസ്

ലൈസൻസിയുടെ പേരും മേൽവിലാസവും	സി.ജി.ജോർജ്ജ്, ചിറ്റേങ്ങ പാറ, കുത്താപ്രാം (PO)	
സ്ഥാപനത്തിന്റെ പേരും, സ്ഥലനാമവും		
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	കരിക്ക് ഉറവിട നടത്തുന്നതിന്	
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡ് നമ്പരും	പുത്തൂർ റിപ്പബ്ലിക് സർവ്വേയ്ക്കർ 156താലൂക്ക്	
ലൈസൻസ് കാലയളവ്	01.04.2018 മുതൽ 31.03.2019 വരെ	
ഇടവകയായ ലൈസൻസ് ഫീസ്	4000+1000 രൂപ	രസീത് നമ്പർ 117040107171 dt 28/02/2018 118040100195 dt 10/04/2018
ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരീക്ഷണ പത്രങ്ങളുടെ വിവരങ്ങൾ ( നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാരസ്ഥാനം)	NO. 503/2009-2010/9867/ന3/2009 dt 05/01/2010 Proceedings of the Director of Mining & Geology PCB/KWR/ICG/673/2010 dated 5/10/2017 Kerala State Pollution Control Board NO. G/SL/KL/221746[E32353] dated 22/12/2017 petroleum & Explosives Safety Organisation.	



സെക്രട്ടറി

Kunnoor Grama Panchayat  
(ഗ്രാമപഞ്ചായത്ത്)  
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	Emission Rate(Nm <sup>3</sup> /Hr)	Stack Height above		Control Equipment
			Ground Level(In Meters)	Roof Level(In Meters)	

#### 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](http://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 PM<sub>2.5</sub> in ambient air at the boundary shall not exceed 60 µg/m<sup>3</sup>

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 Engineer

To

Sri. C.G. GEORGE

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



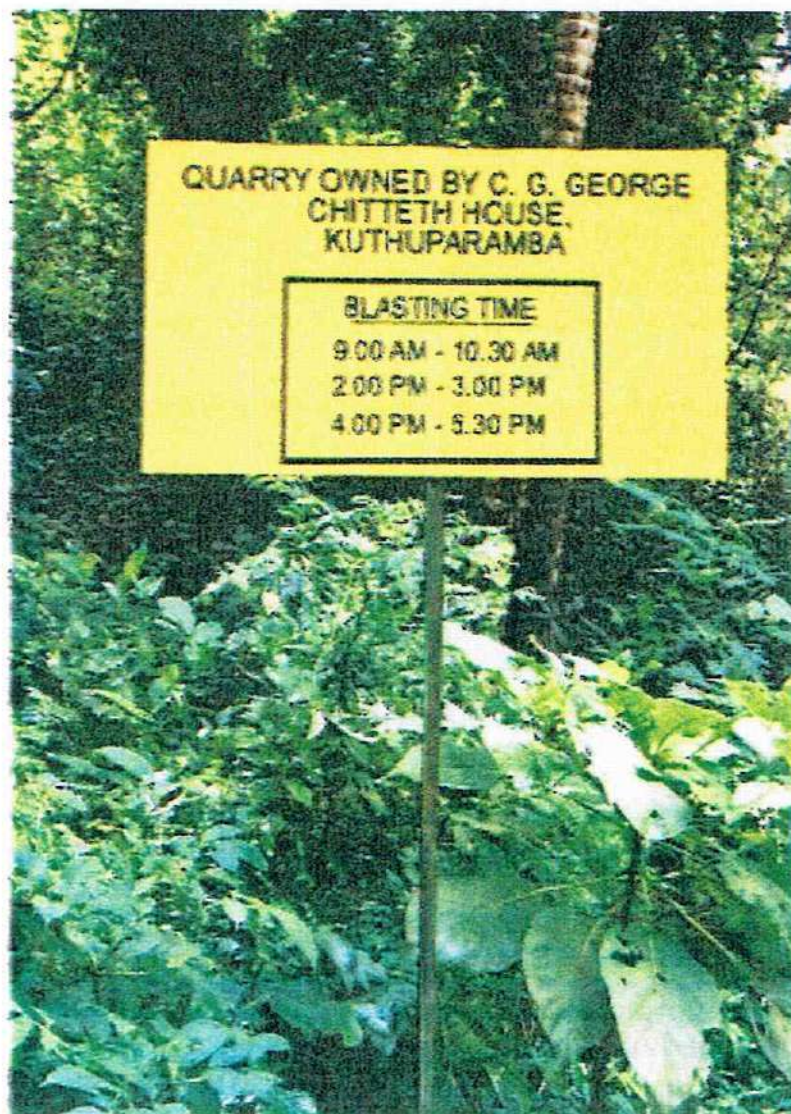
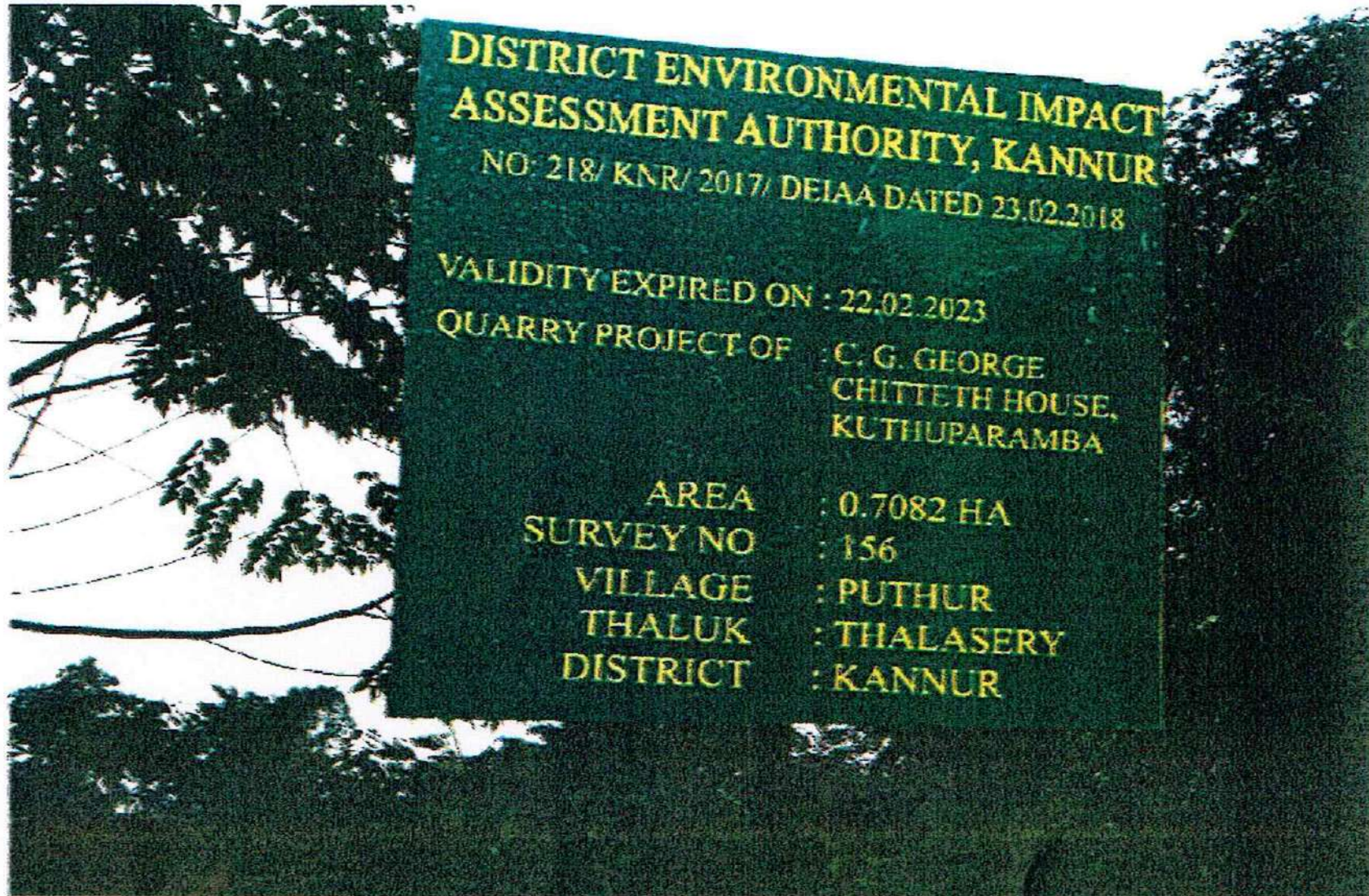
## Newspaper Advertisements in The Hindu and Deepika dated 30/05/2018

The collage features a prominent advertisement for 'English STEP sprints' on the left, which is a Cambridge University Press product. To its right is a dense grid of classified advertisements under the heading 'CLASSIFIEDS MART'. These ads include listings for coaching centers (e.g., 'SSC', 'JEE'), real estate services, and other local business offerings.

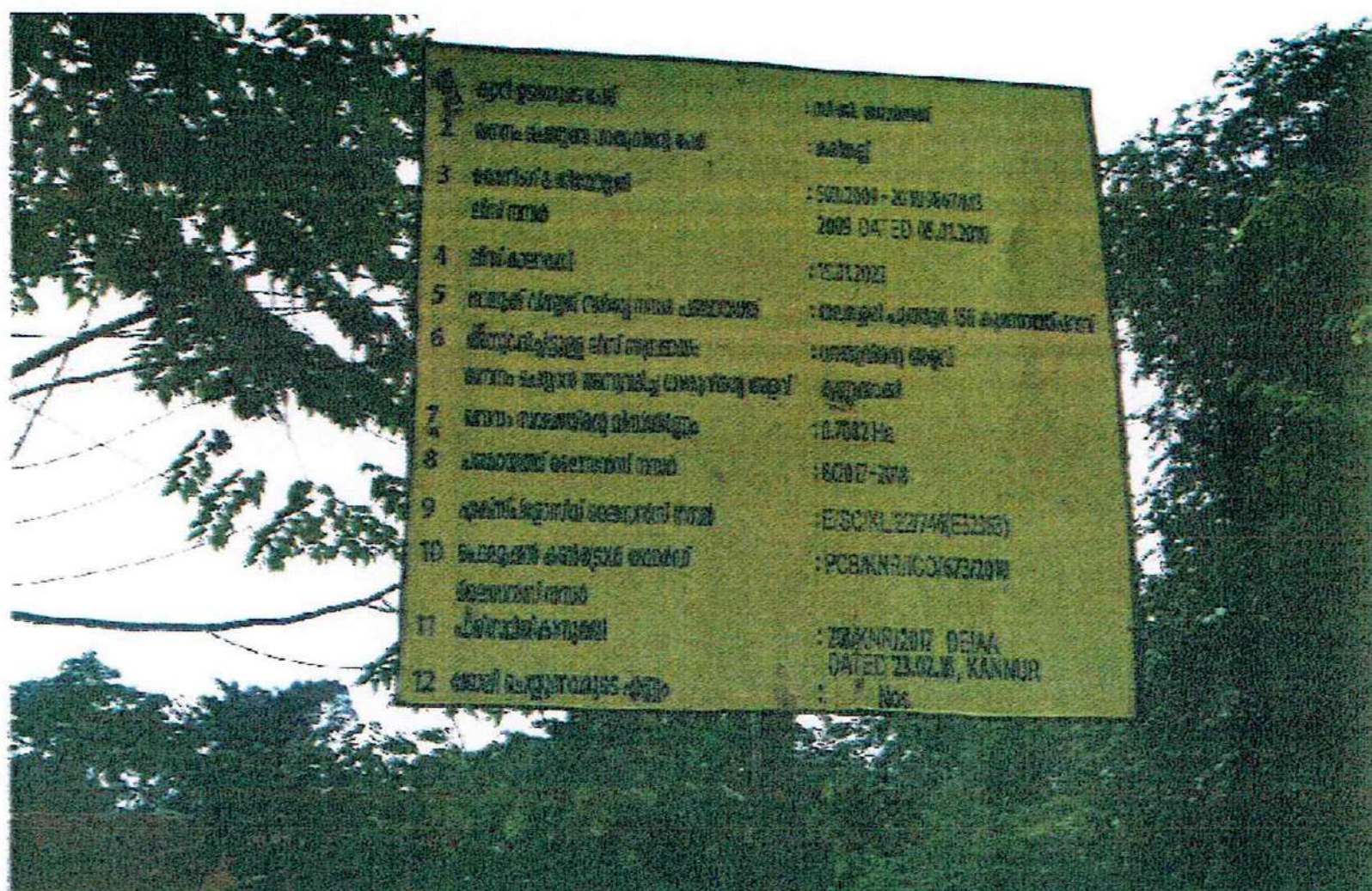
This collage shows a variety of advertisements from the Deepika newspaper. The top portion consists of several text-based ads. A significant portion of the collage is occupied by a large, colorful advertisement for the 'കിഴാപ്പുരിൽ അനന്തേശ്വരതീർത്ഥം' (Kizhappuril Anantheshwara Theertham) pilgrimage, featuring a photograph of the temple and extensive text in Malayalam. A small advertisement for 'SANTHI & SONS' is visible in the bottom right corner.



# Sign Boards









## Annexure 4





Boundary Pillars and Fencing





Resting Place





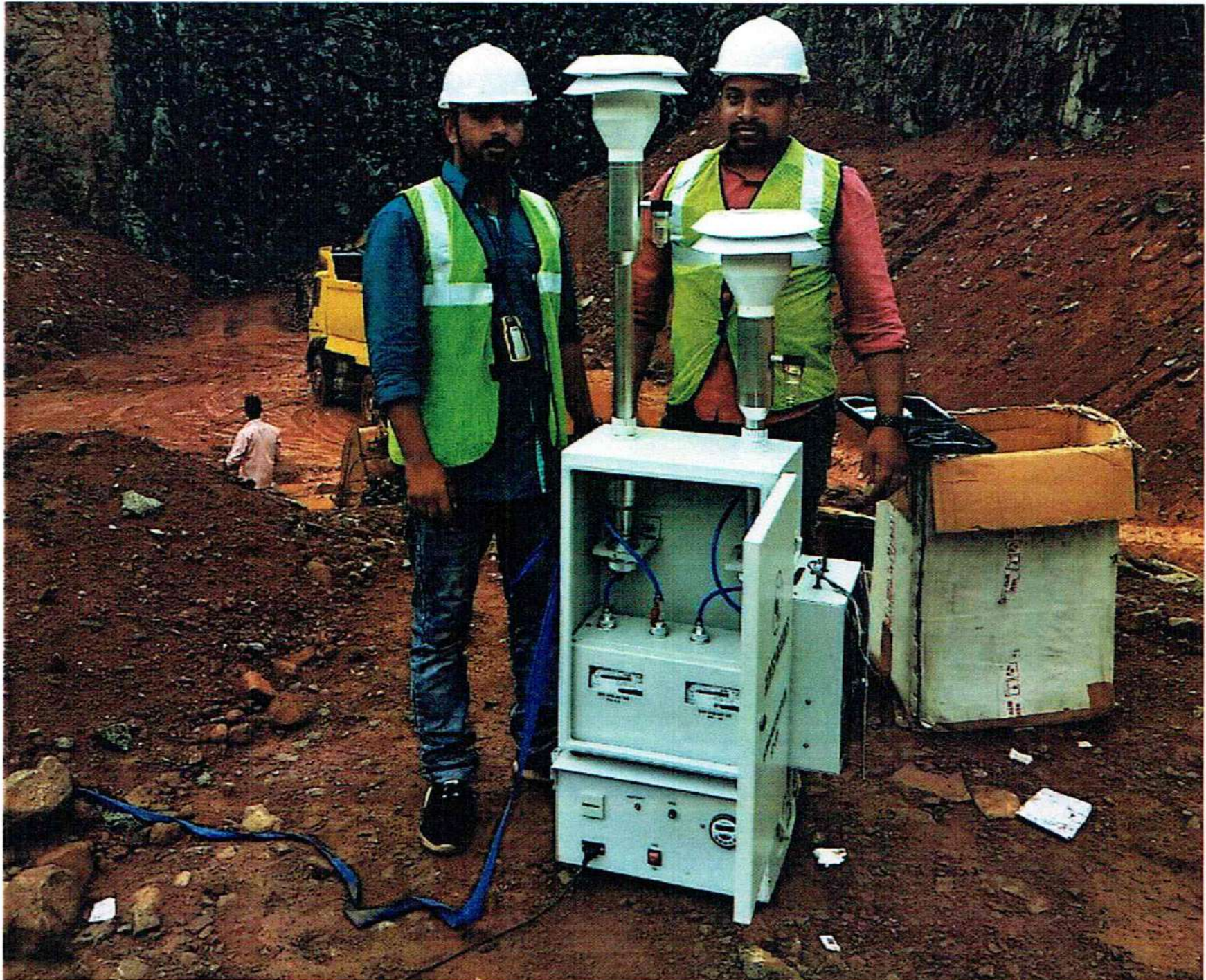
## Annexure-7

### MONITORING PHOTOS AND MONITORING REPORT:





## Annexure-7







# GLOBAL Environment & Mining Services

(Analytical Laboratory, Consulting Engineers, Mine designers, Geologist & Surveyors)

3<sup>rd</sup> Main Road, Basaveswara Badavane, HOSPET – 583201,

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

e-mail : [gems\\_hpt@yahoo.com](mailto:gems_hpt@yahoo.com), [gemslab.hpt@gmail.com](mailto:gemslab.hpt@gmail.com), Website: [www.globalmining.in](http://www.globalmining.in)



Certificate No: TC-5323

GEMS-LD/TF/23/01  
Date: 21.01.2019

## TEST REPORT OF WATER QUALITY DATA

- 1 Name of the Customer/Address : Granite Building Stone Quarry of  
Mr. C.G. George,  
Extent: 0.7082 Ha. (1.7499 Acres)  
Sy. No. 156, Puthur Village, Talassery Taluk,  
Kannur District, Kerala State.
- 2 Customer Reference : By hand
- 3 Sample Description : Well Water
- 4 Sample Collected By : GLOBAL Environment & Mining Services.
- 5 Date of Sample Collection : 16.01.2019
- 6 Date of Sample Receipt : 17.01.2019
- 7 Date of Analysis : 18.01.2019
- 8 Date of Analysis Completion : 19.01.2019
- 9 Report Number : GEMS/BNG/CGG/WW/263/2018-2019

S.No	Parameters	Result	Unit	APHA 22 <sup>nd</sup> Edition Method	IS 10500 - 2012	
		WW-01			Acceptable	Permissible
1	Colour	1.00	Hazen	APHA 2120 B	5	15
2	odour	Ag	-	APHA 2150 B	Agreeable	Agreeable
3	pH at 25 Deg Celcius	7.02	-	APHA 4500 B	6.5 - 8.5	No Relaxation
4	Taste	Ag	-	IS 3025 Part 8	Agreeable	Agreeable
5	Turbidity	0.52	NTU	APHA 2130 B	1.0	5.0
<b>Chemical Parameters</b>						
6	Total dissolved solids	142.0	mg/l	APHA 2540 B	500	2000
7	Calcium as Ca	3.21	mg/l	APHA 3500 B	75	200
8	Magnesium as Mg	3.23	mg/l	APHA 3500 B	30	100
9	Chloride as Cl	7.23	mg/l	APHA 4500 B	250	1000
10	Fluoride as F	0.09	mg/l	APHA 4500 D	1.0	1.5
11	Conductivity	162	µs/cm	APHA 2510B	-	-
12	Nitrate as NO <sub>3</sub>	5.60	mg/l	APHA 4500 E	45	No Relaxation
13	Sulphate as SO <sub>4</sub>	2.23	mg/l	APHA 4500 E	200	400
14	Total Alkalinity as CaCO <sub>3</sub>	2.25	mg/l	APHA 2320 B	200	600
15	Total Hardness as CaCO <sub>3</sub>	14.0	mg/l	APHA 2340 B	200	600
16	Iron as Fe	<0.10	mg/l	APHA 3500 B	0.3	1.0
17	Boron as B	Nil	mg/l	APHA 4500 B	0.5	1.0
<b>Microbiological Parameters</b>						
18	Coliform organism/100ml	Absent	MPN	IS 1622 : 1981	Shall not be detected in any 100ml sample	
19	E.Coli Bacteria/100ml	Absent	-	IS 1622 : 1981		

Note: WW-01, Near Core Zone

### INFERENCE

As per IS 10500 – 2012 Standards,  
Report Status: - Measured Values for the above parameters are within the limit.

Analyzed by  
Keerthana Yadav B.R  
Chemist

Authorized Signatory  
K. Ramakrishna Reddy  
Technical Manager

### Note:

- 1 The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
- 2 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.
- 3 This report is not to be reproduced wholly or in part & cannot be used as evidence in the Court of law & should not use any advertising media without special permission in writing.
- 4 Total liability of our laboratory is limited to the Invoice amount. Any dispute arising out of this report is subject to Hosapete jurisdiction only.





## GLOBAL Environment & Mining Services

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3<sup>rd</sup> Main Road, Basaveswara Badavane, HOSPET – 583201,

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e-mail : [gems\\_hpt@yahoo.com](mailto:gems_hpt@yahoo.com), [gemslab.hpt@gmail.com](mailto:gemslab.hpt@gmail.com), Website: [www.globalmining.in](http://www.globalmining.in)



Certificate No: TC-5323

GEMS-LD/TF/23/01  
Date: 24.01.2019

### TEST REPORT OF AMBIENT AIR QUALITY DATA

- 1 Name of the Customer/Address : Granite Building Stone Quarry of Mr. C.G. George, Extent: 0.7082 Ha. (1.7499 Acres) Sy. No. 156, Puthur Village, Talassery Taluk, Kannur District, Kerala State
- 2 Customer Reference : By hand
- 3 Name of the Station : Core zone area (A1)
- 4 Sample Description : Ambient Air Quality Monitoring
- 5 Sample Collected By : GLOBAL Environment & Mining Services
- 6 Particulars of Sample Collected : Combined Sampler GTI-241
- 7 Date of Sample Collection : 18.01.2019
- 8 Date of Sample Receipt : 21.01.2019
- 9 Date of Analysis : 22.01.2019
- 10 Date of Analysis Completion : 23.01.2019
- 11 Report Number : GEMS/BNG/CGG/AAQ/264/2018-2019

Duration of Monitoring	PM10 [ $\mu\text{g}/\text{m}^3$ ]		PM2.5 [ $\mu\text{g}/\text{m}^3$ ]		SO <sub>2</sub> [ $\mu\text{g}/\text{m}^3$ ]		NO <sub>2</sub> [ $\mu\text{g}/\text{m}^3$ ]	
	IS : 5182: (Part 23) 2006		USEPA 2001		IS : 5182: (Part 2) 2001 (RF 2012)		IS : 5182: (Part 6) 2006 (RF 2012)	
	Result	STD	Result	STD	Result	STD	Result	STD
8 Hrs	41.18	100	11.26	60	10.01	80	9.82	80

**INFERENCE** As per CPCB Standards,  
Report Status: - Measured Values for the above parameters are within the limit.

Analyzed by  
J.M. Thippeswamy  
Chemist

Authorized Signatory  
K. Ramakrishna Reddy  
Technical Manager

#### Note:

- 1 The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied
- 2 Water Samples will be destroyed after 15 Days, Minerals 3 Months, Filter papers & Thimbles 7 Days and HLC samples from the date of issue of Month test certificate unless otherwise specified
- 3 This report is not to be reproduced wholly or in part & cannot be used as evidence in the Court of law & should not use any advertising media without special permission in writing
- 4 Total liability of our laboratory is limited to the Invoice amount. Any dispute arising out of this report is subject to Hospet jurisdiction only.





## GLOBAL Environment & Mining Services

(Analytical Laboratory, Consulting Engineers, Mine designers, Geologist & Surveyors)

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e-mail : [gems\\_hpt@yahoo.com](mailto:gems_hpt@yahoo.com), [gemslab.hpt@gmail.com](mailto:gemslab.hpt@gmail.com), Website: [www.globalmining.in](http://www.globalmining.in)



Certificate No: TC-5323

GEMS-LD/TF/23/01

Date: 18.01.2019

### TEST REPORT OF AMBIENT NOISE LEVEL MONITORING

- 1 Name of the Customer/Address : Granite Building Stone Quarry of  
**Mr. C.G. George,**  
Extent: 0.7082 Ha. (1.7499 Acres)  
Sy. No. 156, Puthur Village, Talassery Taluk,  
Kannur District, Kerala State.
- 2 Customer Reference : By hand
- 3 Sample Description : Ambient Noise Level Monitoring dB(A)
- 4 Sample Collected By : GLOBAL Environment & Mining Services
- 5 Particulars of Sample Collected : EQUINOX-EQ 107
- 6 Date of Sample Collection : 15.01.2019
- 7 Date of Sample Receipt : 16.01.2019
- 8 Method Adopted : IS 9989 -1981Reaffirmed 2008
- 9 Date of Download Data : 17.03.2019
- 10 Report Number : GEMS/BNG/CGG/ANLM/265/2018-2019

Date	15.01.2019
Time (hrs)	Core Zone N1
6.00	38.2
7.00	41.3
8.00	43.8
9.00	46.5
10.00	48.6
11.00	51.0
12.00	53.2
13.00	54.6
14.00	54.8
15.00	56.1
16.00	52.3
17.00	49.6
18.00	46.2
19.00	43.1
20.00	42.4
21.00	40.1
22.00	39.8
23.00	39.5
00.00	38.3
01.00	37.6
02.00	36.9
03.00	37.2
04.00	37.6
05.00	37.9
Min	36.9
Max	56.1
Day dB(A) Leq	50.9
Night dB(A) Leq	38.5

*J.M. Thippeswamy*  
Analyzed by  
J.M. Thippeswamy  
Chemist

*R.K.R.*  
Authorised Signatory  
K. Ramakrishna Reddy  
Technical Manager



## Annexure-8

C G George Sy no:156 Puthur Village CSR 1.9.2018 to 31.3.2019		
18/12/18	PRIYADHARSINI CULTUREL FORUM CHENDAYAD	100000
30/11/18	CMRDRF	77950
5/1/2019	Snehalayam	150000
22/1/19	SRI KODATHIL MADAPPURA EAST VALLYAI	5000
31/1/19	Leela V P, Valiyaparambath kaovelikal po Puthur (house aid)	25000
21/2/19	AMBILAD SRI MAHAVISHNU KSHETHRAM	5000
Total		362950



