

# **ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT**

October 2022 – March 2023

For

**Granite Building Stone Quarry (Minor Mineral)**

Extent : 2.4374 Ha

At

Sy. No:135

Village : Ambalappara

Taluk : Otappalam

District : Palakkad

State : Kerala

**‘Granite Building Stone Quarry Project of  
P.P.K. Granites & Crusher Product Pvt. Ltd’**

EC File NO. E/2703/16/DEIAA

To ,

The Deputy Director General of Forests (c )  
MoEF, Inetgrated Regional office Kedriya Sadan,  
4th Floor, E&F Wings, 17th Main Road,  
Koramangala II Block, Bangalore - 560 034

Respected Sir,

**Sub: Environmental Clearance Compliance Report for the period October 2022 - March 2023 pertaining to ‘Granite Building Stone Quarry of P.P.K. Granites & Crusher Product Pvt Ltd**

**Ref: Environmental Clearance No: 37/2017 Dated: 29/05/2017**

As per conditions of the above referred Environmental Clearance (EC), please find enclosed compliance report for period from October 2022 to March 2023 of the EC Granted to ‘Granite Building Stone Quarry Project of P.P.K. Granites & Crusher Product Pvt Ltd by Ministry of Environmental & Forest under EPA (1986). Also enclosed relevant Annexures in Support of the compliance report for your perusal and record please. A soft copy of the same is sent by email for your record and perusal.

We hope you will find the attached Status Report in Order. Thanking you,  
Yours truly,

For ‘Granite Building Stone Quarry Project of P.P.K. Granites & Crusher Product Pvt Ltd’

Mr. Nisarudeen  
(Partner)

Encl: as above

Cc: The Member Secretary

State Environment Impact Assessment Authority SEIAA)

Directorate of Environment & Climate Change

4th Floor, KSTRC Bus Terminal, Thampanoor,

Kerala-01

**Description of the project**

File No.	E/2703/16/DEIAA
Name of the project	Quarry Project of P.P.K. Granites & Crusher Products Pvt. Ltd (Minor Mineral)
District and state	: Palakkad, Kerala
Taluk / Mandal	: Ottapalam
Category & Schedule	B2 & Schedule 1(a)
Khasara No. / Plot No. / Block / Gate No. etc.,	: Sy. No:135
Extent of Area	2.4374 Ha
Ownership/ Occupancy	: Private Own Land
Latitude & Longitude	: N - 10°48'25.73" to N - 10°48'19.61" E - 76°24'15.16" to E - 76°24'07.04"
Address of Registered office	M/s. P.P.K. Granites and Crusher Products Private Limited.Chunangadu Post, Ottappalam, Palakkad District, Kerala – 679511 Ph No.: +91 9747125476.

**Compliance Status of the General Conditions for Mining Projects Laid down by the State Environment Impact Assessment Authority, Kerala vide their Environment Clearance No. 37/2017 dated: 29/05/2017.**

## **SPECIFIC CONDITIONS**

<b><u>Sl No.</u></b>	<b>Conditions</b>	<b>Status of compliance</b>
1	A Mines manager shall be appointed to control, direct, manage and supervise the Quarrying operations as required under the Mines Act, 1952.	Mines manager has been appointed to control, direct, manage and supervise the Quarrying as required under the Mines Act, 1952.
2	Health and welfare measures for the persons employed shall be implemented.	Health and welfare measures for the persons employed in the quarry has been implemented periodic health checkups are been regularly carried out to all the employees employed in the quarry, as welfare measure proper PPE's are distributed to all the employees.
3	Controlled blasting should be practiced, and blasting shall be done during daytime. The mitigative measures for control of ground vibrations to arrest the fly rocks and boulders should be implemented.	Controlled blasting is practiced and blasting is done during day time and the mitigative measures are strictly followed to control the ground vibrations to arrest the fly rocks & Boulders.
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 specious in consultation with the local DFO/ Agriculture Department.	Plantation is done around the mining lease area excluding the rocky area, along roads, overburden dumps and non-mineralized area by planting Suitable native specious in consultation with the local DFO/ Agriculture Department. <b>Photos are attached as Annexure-1.</b>
5	The drains should be regularly de silted and maintained properly. Check dam and gully checks shall be constructed wherever required to arrest siltation. De siltation shall also	The drains are regularly de silted and maintained properly. Check dam and gully checks are constructed wherever required to arrest siltation. De siltation is carried out every year

	be done every year before the onset of monsoon.	before the onset of monsoon. <b>Photos are attached as Annexure-2.</b>
6	Fencing must be maintained properly all around the lease area.	Lease area is fenced completely.
7	The CSR need redrafting with inclusion of felt needs of the locality.	CSR Activities will be carried out by the Project proponent.
8	Appropriate sign boards should be displayed.	Sign boards have been erected at prominent places. <b>Photos are attached as Annexure-4.</b>
9	The blasting time must be displayed and strictly adhered to.	The blasting time is displayed in the all the access of quarry road. <b>Photos are attached as Annexure-4.</b>
10	The PPV values must be less than 10mm/sec	Necessary mitigation measures and precautions are taken. PPV values are less than 10mm/sec
11	Dust Suppression mechanism must be in place.	Sprinklers are erected to suppress the dust in all the places of the quarry area. <b>Photos are attached as Annexure-5.</b>
12	A separate small plot to be maintained in the premise to preserve rare and endemic species, if any, listed. In the Biodiversity assessment.	Noted.

## **GENERAL CONDITIONS**

1.	Rainwater harvesting facility should be installed as per prevailing provisions of KMBR/KPBR, unless otherwise specified.	Rainwater harvesting is a technically feasible solution for overcoming the problem of water scarcity in Mines. Rain water harvesting facility will be made and maintained.
2.	Environment Monitoring Cell as agreed under the affidavit filed by the proponent.	Environment monitoring cell is formed & is made functional.
3.	Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, including approach roads and internal roads.	Local species saplings procured from Forest department are being planted before onset of monsoons. Photos of plantation are attached as <b>Annexure-1</b> .
4.	Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.	Solar Energy generation and utilization is adopted. Photos are attached as <b>Annexure-6</b> .
5.	Sprinklers shall be installed and used in the Project Site to contain dust emissions.	Water Tankers with Sprinklers are used in project site to control dust emission.
6.	Eco-restoration, including the Mine Closure Plan shall be done at the own cost of the Project Proponent.	Plantation of various saplings within the project area has been initiated. The mine closure plan will be prepared as agreed by the project proponent.
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.	During the Closure of the mine, 10 percent of total excavated pit will be retained as water storage area and the remaining area will be reclaimed with stacked dumping & overburden and indigenous plant species will be planted.
8.	Corporate Social Responsibility (CSR) agreed upon by the Proponent should be implemented.	CSR agreed upon by the proponent is being implemented.
9.	The Lease area shall be fenced off with barbed wires to a minimum height of 4 ft around, before starting	Lease area is fenced off with barbed wires. Sign boards have been erected at prominent places. Photos of the Sign

	of Mining. All the boundary indicators (boards, stores, markings, etc.) shall be protected at all times and shall be conspicuous.	Boards were enclosed as <b>Annexure-4.</b>
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 indicating the time of blasting are arranged as per the stipulations. Necessary precautions while blasting is taken. Blasting Time is displayed in the mine.
11.	Control measures on noise and vibrations prescribed by KSPCB should be implemented.	<ul style="list-style-type: none"> <li>➤ Noise and vibration control measures is implemented by adapting controlled blasting.</li> <li>➤ Use of sharp drilling bits, delivery of compressed air at optimal pressure. Proper maintenance of compressor, drilling machine, jackhammers and tipper trucks.</li> <li>➤ Regular monitoring of noise levels is being done within the core zone and the buffer zone of the mining lease area.</li> </ul>
12.	Quarrying activities should be limited to daytime as per KSPCB guidelines/specific conditions.	Quarrying activities will be limited to daytime only as per KSPCB guidelines. KSPCB License is enclosed as <b>Annexure-7.</b>
13.	Blasting should be done in a controlled manner as specified by the regulations of the Explosives department or any other concerned agency.	Controlled blasting is done as per regulations. Copy of the Explosive License is enclosed as <b>Annexure-8.</b>
14.	A licensed person should supervise/control the Blasting Operations	Blasting supervision/control is done by a Mining Official having DGMS Certificate.
15.	Access roads to the quarry shall be tarred to contain dust emission that may arise during the transportation of materials.	Access road to the Quarry is well maintained. Water Sprinkling is done using water tanker to control dust emissions.
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 kept within the site and will be used for reclamation of Mine Pit as per Mine Closure Plan/specific conditions.
17.	Height of Benches should not exceed 5 M and width should not be less than	The height of the benches is not above 5 metres, and the width is no

	5 M, if there is no mention in the Mining Plan/specific conditions	less than 5 metres, Safety is ensured. <b>(Annexure-9)</b>
18.	Mats to reduce fly rock blast to a maximum of 10 PPV should be provided	Mats are laid on the top of the charged holes area to control fly rock and kept below 10ppv.
19.	Maximum depth of mining and general ground level at site shall not exceed 10m	Noted.
20.	No Mining operations should be carried out at places having a slope greater than 45°	No Mining operations are carried out at places having a slope greater than 45°
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.	Acoustic enclosures are provided to reduce sound amplifications.
22.	The workers on the site should be provided with the required protective equipment such as ear muffs helmet, etc.	Requisite Personal Protective equipment (PPE's) is provided to all employees.
23.	Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.	Garland drains are constructed to channelize storm water. Photos are attached as <b>Annexure-2</b> .
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. Photos of trucks is attached as <b>Annexure-10</b>
25.	The proponent should plant trees at least 5 times the loss that has been occurred while clearing the land for the project.	Plantation are being 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 species in consultation with the local DFO/Agriculture Department. Photos of Plantation is attached as <b>Annexure-1</b> .
26.	Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations.	Spent oil is used as a lubricant for drilling machines.

27.	Explosives should be stored in magazines in isolated place specified and approved by the Explosive Department.	Explosives are stored in a Licensed Explosives Magazine, which is approved by PESO. Copy of magazine license is attached as <b>Annexure-8</b> .
28.	A minimum buffer distance of 50 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 50 M from the boundary of the quarry.
29.	100 M buffer distance should be maintained from forest boundaries	Agreed.
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 <b>Annexure-7</b> .
31.	All other statutory clearances should be obtained, as applicable, by project proponents from the respective competitive authorities including that for blasting and storage of explosives.	All required statutory clearances are obtained.
32.	In the case of any change(s) in the scope of the Project, extent, quantity, process of mining technology involved or in any way affecting the environment parameters/impacts as assessed, based on which only the EC is issued, the project would require a fresh appraisal by this Authority, for which the proponent shall apply and get the approval of this Authority.	There is no change in the scope of the project.
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	Agreed

	(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	
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 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	Advertisements are given in two local newspapers. Photos are attached as <b>Annexure-11</b> .
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 concerned authorities. Copy of Panchayat license attached as <b>Annexure-5</b> .
37.	The proponent shall submit half yearly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the status of compliance of the stipulated	Half yearly compliance reports are submitted as stipulated to State Environmental Impact Assessment Authority and the Regional Office of MoEF&CC, Bangalore.

	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	
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 is prominently displayed at the entrance to the Mine. Photo of the sign board is attached as <b>Annexure-5</b> .
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.	Noted.
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, if any, originating from the mine lease shall be taken.	No natural water course is obstructed. Necessary safeguard measures are 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	Monitoring of Ambient Air Quality is carried out. Monitoring Photos and reports have been enclosed as <b>Annexure-12 and Annexure-13</b> . Water sprinkling is done at appropriate places.

	and unloading points & transfer point to reduce fugitive emissions.	
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 is being used for plantation. OB generated is stacked separately and will be vegetated with locally available shrubs and grasses.
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 and siltation ponds are made around the mining workings, mineral and the water from the drain is directed to the Rain Water Harvesting Pond. The water from RWHP is utilized for watering the mine area, roads, green belt development etc. The drains will be regularly de silted particularly after monsoons and maintained properly.
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	Regular water sprinkling is being done on all necessary roads with water tankers and sprinklers. Photos of sprinklers is attached as <b>Annexure-3</b>

	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 are controlled. Regular water sprinkling will be done on haul roads, loading, unloading and transfer points with water tankers with sprinklers.
47.	Measures should be taken for control of noise levels below 85 dB (A) in the work environment.	Adequate measures for noise control are 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 has been set up with Mr. Nisarudheen as the head of the Cell.
49.	The funds earmarked for environment protection measures and CSR activities should be kept in a separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the State Environment Impact Assessment Authority (SEIAA) office.	The funds earmarked for environment protection measures and CSR activities are being kept in a separate account and will not be diverted for other purpose. Year wise expenditure will be reported to the State Environment Impact Assessment Authority (SEIAA) office.
50.	The Regional office of MoEF & CC located at Bangalore shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the office (s) of the Regional office by furnishing the requisite data/information/monitoring reports.	Agreed
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	Agreed

	the Environment (Protection) Act, 1986.	
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 that mining does not intersect ground water table.
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 Leasearea	All transportation vehicles have 'PUC' Certificate issued by an authorized Pollution checking center. All the vehicles are washed inside the lease area.
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.	There is no need for Drawl of Surface and ground water for the project activities.
60.	Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and	No perennial nallah flows through the lease or exist around the Mine Lease.

	around the mine lease area shall be carried out and reported in the six-monthly reports to SEIAA.	
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 periodically.

For Granite Building Stone Quarry of P.P.K Granites and Crusher

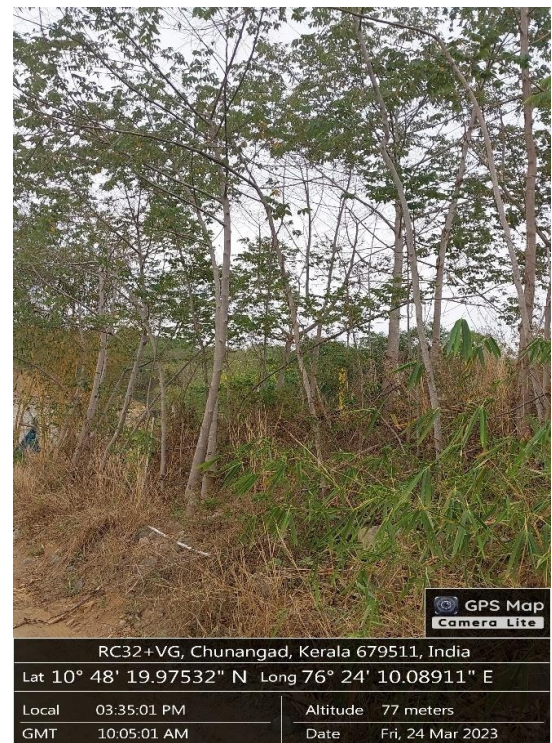
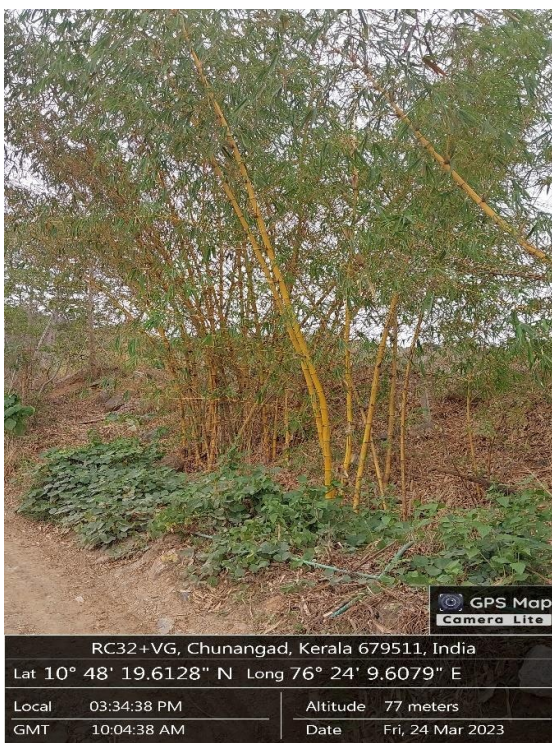


**Mr. Nisarudeen**

**(Partner)**

**Date: 18-11-2022**

# PLANTATION





# De- Siltation of Drains

ANNEXURE-2



## WATER SPRINKLED ROADS



# Photos of Sign Boards

Annexure- 4



RC32+VG, Chunangad, Kerala 679511, India

Lat 10° 48' 18.8914" N Long 76° 24' 8.48354" E

Local 03:32:37 PM

Altitude 77 meters

GMT 10:02:37 AM

Date Fri, 24 Mar 2023



RC32+VG, Chunangad, Kerala 679511, India

Lat 10° 48' 16.75868" N Long 76° 24' 6.7397" E

Local 03:40:27 PM

Altitude 64 meters

GMT 10:10:27 AM

Date Fri, 24 Mar 2023



RC32+VG, Chunangad, Kerala 679511, India

Lat 10° 48' 16.22459" N Long 76° 24' 7.05301" E

Local 03:56:04 PM

Altitude 64 meters

GMT 10:26:04 AM

Date Fri, 24 Mar 2023

# PANCHAYATH LICENSE



അമ്പലപ്പുറ ഗ്രാമപഞ്ചായത്തിൽ നിന്നും  
1994ലെ കേരള പഞ്ചായത്ത് രാജ് ആക്ട് (1994ലെ 13) 232, 233, 234, 254 എന്നീ വകുപ്പുകളും  
അതേ തുടർനുള്ള ചട്ടങ്ങളും അനുസരിച്ച്  
ഫാക്ടറികൾ, വ്യാപാരങ്ങൾ, സംരംഭങ്ങൾ, മറ്റു സേവനങ്ങൾ എന്നിവയ്ക്കായി നൽകുന്ന

## ലൈസൻസ്

നമ്പർ : 400766/RPTL20/GPO/2023/1233

തീയതി : 30.03.2023

ലൈസൻസിയുടെ പേരും താൽവിലാസവും	നിസാറുദീൻ, മാനേജിംഗ് ഡയറക്ടർ, പി പി കെ ഗ്രാനൈറ്റ്സ് & ക്രഷർ പ്രൊഡക്ട്സ്, പ്രൈ. ലിമിറ്റഡ്, ചുനങ്ങാട് (Po).	
സ്ഥാപനത്തിന്റെ പേരും സ്ഥലനാമവും	പി പി കെ ഗ്രാനൈറ്റ് & ക്രഷർ പ്രൊഡക്ട്സ്, പ്രൈ. ലിമിറ്റഡ്	
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	കരിങ്കൽ ചെറുനാ ചെറുനാതിനാ വിൽപ്പന നടത്തുന്നതിനും	
വുല്ലേജ് & സർവ്വേ നമ്പർ	അമ്പലപ്പുറ II, റി സർവ്വേ നമ്പർ - 135	
ലൈസൻസ് കാലയളവ്	01-04-2023 മുതൽ 31-03-2024 വരെ	
ഈടാക്കിയ ലൈസൻസ് ഫീസ്	15000 /- രൂപ	രസീത് നം: 1220209065 തീയതി: 30-03-2023
തൊഴിൽക്കരം	2500 /- രൂപ	രസീത് നം: 1220209065 തീയതി: 30-03-2023
ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരീക്ഷണപത്രങ്ങളുടെ വിശദാംശങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാരസ്ഥാനം)	1. Environment clearance File No. 1062/EC1/2021/SEIAA, Dated. 30/09/2022 valid up to Five (5) Years. 2. PCB/ File No. PCB/PLKD/IC/CO/R17PAL4959489/2022, Dated. 04/03/2022 Consent to operate from Kerala state pollution control board valid up to 20/04/2023. 3. Explosive certificate No. E/SC/KL/22/1098(E55834), Dated. 03/08/2022 valid up to 31/03/2024.	

സെക്രട്ടറി  
അമ്പലപ്പുറ ഗ്രാമപഞ്ചായത്ത്

ജൈവവർദ്ധി ത്വരണപ്രയത്ന റദ്ദ് ചെയ്തുകൊണ്ട് അനുസരിക്കേണ്ടതാകുന്നു.

- [illegible]

Signature Not Verified  
Digitally signed by S. SATHYA C V  
Date: 2023.03.30 18:07:43 IST  
Reason: ILGMS Govt. of Kerala

NB. ഈ ഓരോസിസ് വിധിയിലായി ൧൦/൧൧ ക്ലാസ്സുകളായി ആയിരിക്കാൻ പ്രാബല്യമെന്നും ൧൦/൧൧ നിലയിൽ ആവശ്യമില്ല. ഈ ഓരോസിസ് അവസാനിപ്പിക്കുന്ന തീയതിക്ക് ൧൦/൧൧ നിലയിൽ തന്നെ ഓരോസിസ് പൂർത്തീകരിക്കുന്നതിനുള്ള അവസരം സർട്ടിഫിക്കറ്റിലായിരിക്കണം.

# Photos of Solar Street Light

Annexure- 6



## KSPCB LICENSE



## KERALA STATE POLLUTION CONTROL BOARD

FILE NO. : PCB/PLKD/ICO/R3/R17PAL4959489/2023

Date of issue :07/04/2023

## INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No : PCB/PLKD/ICO/R3/18410425/2023

Ref : Consent No : PCB/PLKD/ICO/R2/17346072/2022 Dated 04/03/2022 Valid Up to 20/04/2023.

The ' Integrated Consent to Operate' issued as per reference above to M/s o M/s P P K GRANITE & CRUSHER PRODUCTS PVT. LTD. QUARRY,CHUNANGAD POST, AMBALAPARA OTTAPALAM, PALAKKAD - 679511 is hereby renewed up to 20/04/2025 and issued to M/s P P K GRANITE & CRUSHER PRODUCTS PVT. LTD. QUARRY,CHUNANGAD POST,AMBALAPARA OTTAPALAM,PALAKKAD - 679511

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	20/04/2025
2	LAST DATE FOR RENEWAL	20/02/2025
3	CAPITAL INVESTMENT ( Rs. In Lakhs)	85.00
4	CATEGORY	RED
5	ANNUAL FEE (RS.)	22000/-
6	FEE REMITTED	66000/- (out of this 19800/- is excess and will be considered for further renewals or fresh CTO of the applicant)

## 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

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

**KRISHNAN M N** Digitally signed by KRISHNAN M N  
Date: 2023.04.19 07:49:50 +05'30'

DATE :19/04/2023

SIGNATURE & SEAL OF ISSUING AUTHORITY  
ENVIRONMENTAL ENGINEER



**To**  
SHIJU.S  
DIRECTOR  
P P K GRANITE & CRUSHER  
PRODUCTS PVT. LTD.,  
CHUNANGAD POST,  
AMBALAPARA OTTAPALAM,  
PALAKKAD - 679511  
P P K GRANITE & CRUSHER PRODUCTS PVT. LTD. QUARRY  
CHUNANGAD POST,  
AMBALAPARA  
OTTAPALAM,  
PALAKKAD - 679511

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



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.कक्कनाड कोच्ची | CSEZ PO Kakkanad Dist. Ernakulam Ernakulam 682037  
फोन (Phone):- 2427286 | फैक्स (Fax):- 2427276

संख्या (No.): E/SC/KL/22/1417(E67648)

दिनांक (Date): 02/01/2023

सेवा में | To,

M/s New Mary Matha Metal Crusher Unit,  
Pulickal Kavala P.O, Town/Village - Kottayam  
District-KOTTAYAM, State-Kerala, Pincode - 686515

विषय : Survey No.Re.Sy No.224/2,Block No.41, ग्राम Kooroppada, Kottayam Taluk, जिला KOTTAYAM, राज्य Kerala में मेसर्स M/s New Mary Matha Metal Crusher Unit द्वारा विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुज्ञप्ति सं E/SC/KL/22/1417(E67648) के संशोधन संदर्भ में।  
(विस्फोटक की मात्रा / मासिक खरीद सीमा में परिवर्तन अरेखण / सुविधाएं / परिसर में परिवर्तन)

Subject: Possession for Use of Explosives from magazine situated at Survey No.:Re.Sy No.224/2,Block No.41, Kooroppada, Kottayam Taluk, Dist. KOTTAYAM, Kerala - Licence No.: E/SC/KL/22/1417(E67648) granted in Form LE-3 of Explosives Rules, 2008 -  
(Amendment of Quantity of Explosives/Monthly Purchase Limit Amendment in Drawings/Facilities/Premises).

महोदय | Sir,

आपका उपर्युक्त विषय पर पत्र संख्या 74173 दिनांक 18/12/2022 का संदर्भ ग्रहण करें।  
Please refer to your letter no. 74173 dated 18/12/2022.

अनुज्ञप्ति संख्या E/SC/KL/22/1417(E67648) Intimation regarding quarrying operations at Block No.41, Re.Survey No. 224/2, 228/1, 228/5 Kooroppada Village, Kottayam Taluk and District vide indent letter No. DMG/8277/M3/2021 dated 26.03.2022 of Directorate of Mining and Geology, Thiruvananthapuram is hereby acknowledged. This amendment does not absolve necessary approval, permissions and clearances obtained from state government or authorities as applicable. No use of explosives is permitted unless valid quarry permit is obtained from the Mining and Geology Department. के संदर्भ में यथा संशोधित कर भेजी जा रही है।  
The Licence No.: E/SC/KL/22/1417(E67648) is forwarded herewith duly amended in respect of followings ;

Intimation regarding quarrying operations at Block No.41, Re.Survey No. 224/2, 228/1, 228/5 Kooroppada Village, Kottayam Taluk and District vide indent letter No. DMG/8277/M3/2021 dated 26.03.2022 of Directorate of Mining and Geology, Thiruvananthapuram is hereby acknowledged. This amendment does not absolve necessary approval, permissions and clearances obtained from state government or authorities as applicable. No use of explosives is permitted unless valid quarry permit is obtained from the Mining and Geology Department..

किसी भी एक समय में लाइसेंस क्षमता निम्नलिखित वर्ग तथा मात्रा से अधिक नहीं होगी।

The licence capacity at any one time shall not exceed the kinds and quantities mentioned below ;

संख्या No	विस्फोटक Explosive(s)	वर्ग Class	प्रभाग Div	उप-प्रभाग Sub Div	क्षमता Capacity	इकाई Unit
1	Nitrate Mixture	2	0	0	100	Kg.
2	Safety Fuse	6	1	0	1500	Mtrs
3	Electric Detonators	6	3	0	1000	Nos.
4	Ordinary Detonator	6	3	0	1000	Nos.
5	Non Electric (Nonel) detonators	6	3	0	1000	Nos.

किसी एक कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा (अनुच्छेद 3 (ख) और (ग) के अधीन अनुज्ञप्ति के लिए लागू) : 15 गुना

Quantity of explosives to be purchased in a calendar month[applicable for licence under article 3(b) and (c)] : 15 times as above.

यह अनुज्ञप्ति दिनांक 31 मार्च 2027 तक प्रवृत्त रहेगी।

This Licence shall remain valid till 31st day of March 2027.

अनुज्ञप्ति के आगामी नवीकरण हेतु कृपया विस्फोटक नियम, 2008 के नियम 112 के अंतर्गत प्रक्रिया का पालन करें। कृपया पावती दें।

For further revalidation(if required), please follow the procedure under Rule 112 of Explosives Rules, 2008. Receipt of this letter may please be acknowledged.

भवदीय | Your's faithfully

(एस. सरवनन | S Saravanan)

उप विस्फोटक नियंत्रक | Dy. Controller of Explosives

कृते उप मुख्य विस्फोटक नियंत्रक | For Dy. Chief Controller of Explosives

कोच्ची | Ernakulam

प्रतिलिपि प्रेषित | Copy Forwarded to:

- District Magistrate, KOTTAYAM, Kerala with reference to his Noc No: dcktm/10585/2022-h4 Dated: 18/11/2022
- Superintendent of Police, KOTTAYAM, Kerala.

कृते उप मुख्य विस्फोटक नियंत्रक | For The Dy. Chief Controller of Explosives,  
कोच्ची | 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>)

**Note :- This is system generated document does not require physical signature. Applicant may take printout for their records.**

# Photo of Bench

Annexure -9



RC32+VG, Chunangad, Kerala 679511, India

Lat 10° 48' 20.718" N Long 76° 24' 12.07876" E

Local 03:25:59 PM

Altitude 84 meters

GMT 09:55:59 AM

Date Fri, 24 Mar 2023

# Photo of Trucks covered while transportation in Quarry

Annexure -10





RC32+VG, Chunangad, Kerala 679511, India

Lat 10° 48' 17.04434" N Long 76° 24' 7.4749" E

Local 03:41:25 PM

Altitude 64 meters

GMT 10:11:25 AM

Date Fri, 24 Mar 2023

# പറമ്പിക്കുളം ഡാമുകൾക്കുള്ള നൂറു ജലനഷ്ടം ഒഴിവാക്കണം

കോട് പറമ്പിക്കുളം മുതൽ കോട്ടക്കൽ വരെ നൂറു ജലനഷ്ടം ഒഴിവാക്കാൻ നടപടി കൈക്കൊള്ളണമെന്ന ആവശ്യപ്പെട്ട് ജലസംരക്ഷണ സമിതി, സംയുക്ത ജലശ്രമികരണ വിഭാഗം ഡെപ്യൂട്ടി ഡയറക്ടർക്ക് നിവേദനം നൽകി.

കോട് പറമ്പിക്കുളം മുതൽ കോട്ടക്കൽ വരെ നൂറു ജലനഷ്ടം ഒഴിവാക്കാൻ നടപടി കൈക്കൊള്ളണമെന്ന ആവശ്യപ്പെട്ട് ജലസംരക്ഷണ സമിതി, സംയുക്ത ജലശ്രമികരണ വിഭാഗം ഡെപ്യൂട്ടി ഡയറക്ടർക്ക് നിവേദനം നൽകി.

കോട് പറമ്പിക്കുളം മുതൽ കോട്ടക്കൽ വരെ നൂറു ജലനഷ്ടം ഒഴിവാക്കാൻ നടപടി കൈക്കൊള്ളണമെന്ന ആവശ്യപ്പെട്ട് ജലസംരക്ഷണ സമിതി, സംയുക്ത ജലശ്രമികരണ വിഭാഗം ഡെപ്യൂട്ടി ഡയറക്ടർക്ക് നിവേദനം നൽകി.

വകുപ്പ് തുടങ്ങിയ സാഹചര്യത്തിൽ വരണയോട് വഴി എല്ലാം വെള്ളമെത്തിക്കുന്നതിന് നടപടി സ്വീകരിക്കണം എന്നാവശ്യപ്പെട്ട് ജലസംരക്ഷണ സമിതി, സംയുക്ത ജലശ്രമികരണ വിഭാഗം ഡെപ്യൂട്ടി ഡയറക്ടർക്ക് നിവേദനം നൽകി.

## നോട്ടീസ്

നോട്ടീസ് പൊതുജന ശ്രദ്ധയ്ക്കായി കേരള സംസ്ഥാനം, പാലക്കാട് ജില്ല, ഒറ്റപ്പാലം താലൂക്ക്, അമ്പലപ്പാറ ഗ്രാമ പഞ്ചായത്തിലും അമ്പലപ്പാറ II വില്ലേജുംപ്പെട്ട സർവ്വേ നമ്പർ.135 ൽ പറമ്പനം ചെയ്യുന്നതിനുവേണ്ട പരിസ്ഥിതി അനുമതി പി.പി.കെ. ഗ്രാനൈറ്റ്സ് & ക്രഷർ പ്രൊഡക്ട്സ് പ്രൈ.ലിമിറ്റഡ് എന്ന സ്ഥാപനത്തിന് ഡിസ്ക്രിട്ട് എൻവിറോൺമെന്റ് ഇംപാക്ട് അസസ്സ് മെന്റ് അതോറിറ്റിയിൽ (DEIAA) നിന്നും 21.04.2017-ാം തീയതി എൻവിറോൺമെന്റ് ക്ലിയറൻസ് നമ്പർ 4/16 (E/2703/16 DEIAA)-ാം ഓർഡർ പ്രകാരം ലഭിച്ചിരിക്കുന്നു. ഈ ഓർഡറിന്റെ പകർപ്പ് [enviromentalclearance.nic.in](http://enviromentalclearance.nic.in) എന്ന വെബ്സൈറ്റിൽ ഡിസ്ക്രിട്ട് പോർട്ടലിൽ ലഭ്യമാണ്.

പി.പി.കെ. ഗ്രാനൈറ്റ്സ് & ക്രഷർ പ്രൊഡക്ട്സ് പ്രൈ.ലിമിറ്റഡ് ചുമന്ന ഓർഡർ പോസ്റ്റ്

Authorised Officer  
Instruction Pvt. Ltd.,  
Asus Group 24T1

P P K GRANITES & CRUSHER  
PRODUCTS PRIVATE LIMITED,  
CHUNANGAD POST,  
OTTAPALAM, PALAKKAD.

"I don't know how  
be there were no laps  
to support me in my

Central Bank of India

# POSSI

Whereas the undersigned  
bank of India under the  
Assesse and Enforcement  
powers conferred upon him  
security interest (Enforced  
dated 09/09/2015 calling  
Konnankottu House, Kri  
Thrissur 680631 presently  
Chowannur Post, Kunnank

## MONITORING PHOTOS



# MONITORING REPORT



GEMS

NABL  
Accredited

## GLOBAL ENVIRONMENT & MINING SERVICES

(Consulting Engineers, Mine designers, Geologist &amp; Surveyors)

NABL &amp; MOEFCC RECOGNIZED LABORATORY

3<sup>rd</sup> Main Road, Basaveswara Badavane,**HOSPETE – 583201**, Dist., Vijayanagara (Karnataka)

Ph : +918394 229433, 295018

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

Website : www.globalmining.in

GEMS-LD/TF/11/01

Date: 19.11.2022

### Analysis Report of Ambient Air Quality Monitoring

- 1 Name of the Customer/Address : Granite Building Stone Quarry of  
**M/s.P.P.K. Granites and Crusher Products Private Limited.**  
Extent: 2.4374 Ha.  
Re Sy. No., 135/pt, Ambalappara-II Village,  
Otappalam Taluk, Palakkad 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 Location of Monitoring : **Core zone area (A1)**
- 11 Report Number : ULR-TC532322000001345F

### Results

Date 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 (RA 2012)	USEPA 2001	IS : 5182: (Part 2) 2001 (RF 2014)	IS : 5182: (Part 6) 2006 (RF 2014)
14.11.2022	56.3	21.1	11.5	15.6
<b>Standard</b>	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

#### INFERENCE

As per CPCB Standards,

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

\*\*End of Report\*\*

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:

- 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 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.
- 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.
- Total liability of our laboratory is limited to the Invoice amount. Any dispute arising out of this report is subject to Hosapete jurisdiction only.



GEMS

NABL  
Accredited**GLOBAL ENVIRONMENT & MINING SERVICES**

(Consulting Engineers, Mine designers, Geologist &amp; Surveyors)

NABL &amp; MOEFCC RECOGNIZED LABORATORY

3<sup>rd</sup> Main Road, Basaveswara Badavane,**HOSPETE – 583201**, Dist., Vijayanagara (Karnataka)

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GEMS-LD/TF/11/01

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Extent: 2.4374 Ha.  
Re Sy. No.,135/pt, Ambalappara-II Village,  
Otappalam Taluk, Palakkad 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 : **(A2) Murugumpetta**
- 7 Report Number : ULR-TC532322000001346F

**Results**

Date of Monitoring	PM10 [µg/m <sup>3</sup> ]	PM2.5 [µg/m <sup>3</sup> ]	SO <sub>2</sub> [µg/m <sup>3</sup> ]	NO <sub>2</sub> [µg/m <sup>3</sup> ]
	IS: 5182: (Part 23) 2006 (RA 2012)	USEPA 2001	IS: 5182: (Part 2) 2001 (RF 2014)	IS: 5182: (Part 6) 2006 (RF 2014)
15.11.2022	46.6	17.3	9.9	11.8
<b>Standard</b>	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

**INFERENCE**

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

**\*\*End of Report\*\****J.M. Thy*

**Analysed By**  
J.M. Thippeswamy  
Chemist

*P.K.R*

**Authorized Signatory**  
K. Ramakrishna Reddy  
Technical Manager

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

**Note:**

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Website : www.globalmining.in

GEMS-LD/TF/11/01

Date: 19.11.2022

### TEST REPORT OF AMBIENT NOISE LEVEL MONITORING

- 1 Name of the Customer/Address : Granite Building Stone Quarry of  
**M/s.P.P.K. Granites and Crusher Products Private Limited.**  
Extent: 2.4374 Ha.  
Re Sy. No.,135/pt, Ambalappara-II Village,  
Otappalam Taluk, Palakkad 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 : 15.11.2022
- 7 Report No : ULR-TC53232200001347F

#### Results

Date	14.11.2022	15.11.2022
Name of the Location	Core Zone	Murugumpetta
Time (hrs)	N1	N2
6.00	38.8	36.6
7.00	42.8	36.8
8.00	46.2	38.8
9.00	48.4	40.2
10.00	50.6	40.6
11.00	50.2	42.2
12.00	52.2	42.4
13.00	54.6	44.2
14.00	55.8	44.8
15.00	55.6	46.6
16.00	54.2	46.8
17.00	52.8	46.2
18.00	50.6	44.2
19.00	49.8	44.6
20.00	49.2	44.8
21.00	42.8	44.8
22.00	40.8	44.4
23.00	38.6	40.6
00.00	34.2	38.6
01.00	30.8	38.4
02.00	30.4	34.4
03.00	34.8	34.8
04.00	38.8	38.2
05.00	42.6	38.8



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#### Note:

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(Consulting Engineers, Mine designers, Geologist &amp; Surveyors)

NABL &amp; MOEFCC RECOGNIZED LABORATORY

3<sup>rd</sup> Main Road, Basaveswara Badavane,**HOSPETE – 583201**, Dist., Vijayanagara (Karnataka)

Ph : +918394 229433, 295018

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

Website : www.globalmining.in

ULR-TC532322000001347F		
<b>L max</b>	55.8	46.8
<b>L min</b>	30.4	36.6
<b>Ld</b>	51.86	43.67
<b>Ln</b>	39.0	40.6
<b>Leq</b>	49.9	42.7

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

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.	



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

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

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GEMS-LD/TF/11/01

Date: 19.11.2022

**ANALYSIS REPORT OF WATER QUALITY DATA**

Granite Building Stone Quarry of

**M/s.P.P.K. Granites and Crusher Products Private Limited.**

- 1 Name of the Customer/Address : Extent: 2.4374 Ha.  
Re Sy. No., 135/pt, Ambalappara-II Village,  
Otappalam Taluk, Palakkad District, Kerala State.
- 2 Sample Collected By : GLOBAL Environment & Mining Services
- 5 Date of sample collection : 14.11.2022
- 6 Date of sample Received : 17.11.2022
- 7 Date of sample Analyzed : 18.11.2022
- 8 Report Number : ULR-TC532322000001348F

Sl. No.	Parameters	Unit	Result	Test Protocol	Requirement/Limit IS : 10500 : 2012	
					Acceptable	Permissible
1.	pH	-	6.81	APHA 22 <sup>nd</sup> Edition 2012 4500 B (Pg No. 4-92 to 4-96)	6.5	8.5
2.	Colour*	Hazen	<5	IS: 3025 (PART 14)- 1984, RA- 2012 Platinum cobalt Method	5	15
3.	Taste*	-	Ag	IS 3025 Part 8 1984	Ag	Ag
4.	Odour*	-	Ag	IS: 3025 (Part 5) – 1983, Ra-2012, True Odour	Ag	Ag
5.	Turbidity	NTU	1.05	APHA 22 <sup>nd</sup> Edition 2012 2130 B (Pg No. 2-14)	1	5
6.	Conductivity	µS/cm	164	APHA 22 <sup>nd</sup> Edition 2012 2510 B (Pg No. 2-54)	-	-
7.	Total Dissolved Solids	mg/L	141	APHA 22 <sup>nd</sup> Edition 2012 2540 B (Pg No. 2-65)	500	2000
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/L	68	APHA 22 <sup>nd</sup> Edition 2320 B (Pg No. 2-35)	200	600
9.	Total Hardness as CaCO <sub>3</sub>	mg/L	121	APHA 22 <sup>nd</sup> Edition 2012 2340 C (Pg No. 2-46)	200	600
10.	Calcium as Ca	mg/L	41	APHA 22 <sup>nd</sup> Edition 2012 3500 Ca B (Pg No. 3-84)	75	200
11.	Magnesium as Mg	mg/L	28	APHA 22 <sup>nd</sup> Edition 2012 3500 B-Mg By Calculation	30	100
12.	Chloride as Cl	mg/L	14.1	APHA 22 <sup>nd</sup> Edition 2012 4500 Cl (Pg No. 4-72)	250	1000
13.	Sulphate as SO <sub>4</sub>	mg/L	49	APHA 22 <sup>nd</sup> Edition 2012 4500 SO <sub>4</sub> 2 – E (Pg No. 4-190)	200	400
14.	Nitrates as NO <sub>3</sub>	mg/L	7.1	APHA 23 <sup>rd</sup> Edition - 4500 NO <sub>3</sub> – E (Pg No. 4-131 to 4-132)	45	NR
14.	Nitrate Nitrogen as NO <sub>3</sub>	mg/L	25	APHA 22 <sup>nd</sup> Edition 2012 4500 NO <sub>3</sub> E (Pg No. 4-125 to 4-127)	45	No relaxation



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15.	Fluoride as F	mg/L	0.52	APHA 23 <sup>rd</sup> Edition 2017 4500 F-D (Pg No. 4-90 to 4-91)	1.0	1.5
16.	Iron as Fe	mg/L	0.24	APHA 23 <sup>rd</sup> Edition – 3500 Fe-B (Pg No. 3-80 to 3-82)	0.3	NR
17.	Sodium as Na	mg/L	7.2	APHA 23 <sup>rd</sup> Edition 2017 Na 3500 B (Pg No. 3-99 to 3-100)	-	-
18.	Potassium as K	mg/L	0.78	APHA 23 <sup>rd</sup> Edition 3500 K B (Pg No. 3-89 to 3-90)	-	-
19.	BOD 3 days at 27° C	mg/L	NIL	IS:3025 (P.44) – 1993 , RA-2014,	-	-
20.	COD as O <sub>2</sub>	mg/L	NIL	APHA 23 <sup>rd</sup> Edition 5220 C (Pg No. 5-18 to 5-19)	-	-
21.	Oil & Grease	mg/L	NIL	APHA 23 <sup>rd</sup> Edition 5520 B (Pg No.5-41 to 5-42)	0.5	NR
22.	Cadmium as Cd*	mg/L	<0.001	APHA-23 <sup>RD</sup> Edition-3111 –B (Pg No.3-20 to 3-21)	0.003	NR
23.	Copper as Cu	mg/L	<0.001	APHA-23 <sup>RD</sup> Edition-3111-B (Pg No.3-20 to 3-21)	0.02	1.5
24.	Nickel as Ni	mg/L	<0.001	APHA-23 <sup>RD</sup> Edition-3111 –B (Pg No. 3-20 to 3-21)	0.02	NR
25.	Zinc as Zn	mg/L	<0.1	APHA-23 <sup>RD</sup> Edition-3111-B (Pg No. 3-20 to 3-21)	5	15
26.	Salinity*	PPT	NIL	APHA-23 <sup>RD</sup> Edition-3111-B (Pg No. 3-20 to 3-21)	-	-
27.	Total Phosphorous	mg/L	<0.01	APHA-23 <sup>RD</sup> Edition 4500-D (Pg No. 4-154)	-	-
28.	Total Coliforms*	MPN/ 100ml	Ab	APHA 22 <sup>nd</sup> Edition 9222 B (Pg No.9-78)	-	-
29.	Feacal Coliforms	MPN/ 100ml	Ab	APHA 22 <sup>nd</sup> Edition 9222 D (Pg No.9-85)	-	-
30.	Phyto Plankton*	Unit/L	Ab	APHA 23 <sup>rd</sup> Edition 10200 F (Pg No.10-17)	-	-

Note: BDL Below Detectable Limit

Ag: Agreeable

NR: No Relaxation

RA: reaffirmed

Ab: Absent

Location: Murugumpetta

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

*Jm.Ty*  
Analyzed By  
Chemist



*P.R.R*  
Authorized Signatory  
Technical Manager

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