

ENVIRONMENT CLEARANCE COMPLIANCE REPORT

April 2024- September 2024

For

GRANITE BUILDING STONE QUARRY (Minor Mineral)

Extent: 2.4374 Ha. (6.0229 Acres)

At

Sy No.: 135

Village: Ambalappara

Taluk: Ottapalam

District: Palakkad

State: Kerala,

‘Quarry Project of P.P.K. Granites’

File NO: E/2703/16/DIEAA

Dated: 21/04/2017

Date: 08/10/2024

To,

**The Member Secretary
State Environment Impact Assessment Authority (SEIAA)
Directorate of Environment & Climate Change
4th Floor, KSTRC Bus Terminal,
Thampanoor, Kerala-01**

Respected Sir,

Sub: Environmental Clearance Compliance Report for the period April 2024 – September 2024 pertaining to ‘Granite Building Stone Quarry of ‘PPK Granites and Crusher Private Limited’

Ref: Environmental Clearance No: 4/16, Dated: 21/04/2017.

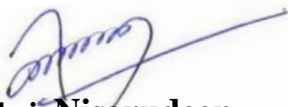
As per conditions of the above referred Environmental Clearance (EC), please find enclosed compliance report for period from April 2024 to September 2024 of the EC Granted to ‘Granite Building Stone Quarry of PPK Granites and Crusher Private Limited ‘by Ministry of Environmental & Forest under EPA (1986). 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 of
PPK Granites and Crusher Private Limited’**



Shri. Nisarudeen
(Managing Director)

Encl: as above

Cc:

The Deputy Director General of Forests(C)
MoEF, Regional office, Koramangala, Bangalore.
Kendriya Sadan, 4th Floor, E & F. Wings, 17th Main Road,
Koramangala, 2ND Block, Bangalore - 560034

Introduction

Mr. Nisarudeen, P.P.K. Granites & Crusher Products Pvt. Ltd, Chunangad P.O, Ottapalam taluk, Palakkad District, Kerala- 679511 has been granted for a mining lease to quarry Granite Building Stone over an area of 2.4374Ha. In Sy. No: 135, Ambalappara- II Village Ottapalam taluk, Palakkad District, Kerala The Environmental clearance is also obtained for this mining lease vide letter no E/2703/16/DEIAA. Dated: 21/04/2017, for a maximum production of 71,000 MTA. This granite building stone quarry is located at 5.8 Kms from Ambalappara-II Village in Ottappalam Taluk. It is at a distance of 33.2 Kms by road from Palakkad town. It can be reached from Varodu Chunangadu Road.

Introduction

Mr. Nisarudeen, P.P.K. Granites & Crusher Products Pvt. Ltd, Chunangad P.O, Ottapalam taluk, Palakkad District, Kerala- 679511 has been granted for a mining lease to quarry Granite Building Stone over an area of 2.4374Ha. In Sy. No: 135, Ambalappara- II Village Ottapalam taluk, Palakkad District, Kerala The Environmental clearance is also obtained for this mining lease vide letter no E/2703/16/DEIAA. Dated: 21/04/2017, for a maximum production of 71,000 MTA. This granite building stone quarry is located at 5.8 Kms from Ambalappara-II Village in Ottappalam Taluk. It is at a distance of 33.2 Kms by road from Palakkad town. It can be reached from Varodu Chunangadu Road.

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 specific conditions & General Conditions for Mining Projects Laid down by the State Environment Impact Assessment Authority, Environment Clearance No. No.4/16 Dated: 21/04/2017

SPECIFIC CONDITIONS

<u>Sl No.</u>	Conditions	Status of compliance
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 PPEs 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 was practiced and blasting is done only on day time and the mitigative measures are strictly followed to control the ground vibrations and 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. Plantation photos was attached as Annexure-1 .
5	The drains should be regularly de silted and maintained properly.	The drains are regularly de silted and maintained properly. Check dam

	Check dam and gully checks shall be constructed wherever required to arrest siltation. De siltation shall also be done every year before the onset of monsoon.	and gully checks are constructed. De siltation is carried out every year before the onset of monsoon. Photos of garland drains & SST's was attached as Annexure-9 .
6	Fencing must be maintained properly all around the lease area.	Entire lease area is fenced and maintained properly. Fencing Photos was attached as Annexure-3 .
7	The CSR need redrafting with inclusion of felt needs of the locality.	Noted.
8	Appropriate sign boards should be displayed.	Sign boards have been erected at prominent places. Sign Boards photos were attached as Annexure-4 .
9	The blasting time must be displayed and strictly adhered to.	Board with blasting time mentioned in it was erected and Photo was attached in Annexure-4 .
10	The PPV values must be less than 10mm/sec	Necessary mitigation measures and precautions are taken to maintain PPV values less than 10mm/sec
11	Dust Suppression mechanism must be in place.	Water Sprinklers are erected to suppress the dust. Water sprinklers Photos are attached as Annexure-6 .
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 was made and maintained properly. The photos of rain water harvesting pond was attached as Annexure-9.
2.	Environment Monitoring Cell as agreed under the affidavit filed by the proponent.	Environment monitoring cell is formed & is made functional. Details of environmental monitoring cell is attached as Annexure 11.
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 avenue trees are attached as Annexure-16.
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.
5.	Sprinklers shall be installed and used in the Project Site to contain dust emissions.	Sprinklers are used in project site to control dust emission. Photos of water sprinklers are attached as Annexure-6.
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 Mine Closure, 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 of Mining. All the boundary indicators (boards, stores, markings, etc.) shall be protected at all times and shall be conspicuous.	Lease area is properly fenced off with barbed wires and photos were attached as Annexure- 03 .
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. Photos are attached in Annexure-04 .
11.	Control measures on noise and vibrations prescribed by KSPCB should be implemented.	<ul style="list-style-type: none">➤ Noise and vibration control measures is implemented by adapting controlled blasting.➤ Use of sharp drilling bits, delivery of compressed air at optimal pressure. Proper maintenance of compressor, drilling machine, jackhammers and tipper trucks.➤ Regular monitoring of noise levels is 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 is limited to daytime only as per KSPCB guidelines. Copy KSPCB License is enclosed as Annexure-12 .
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 Annexure-13 .
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 tarred and well maintained. Water Sprinkling is done to control dust emissions. Access road photos are

		attached as Annexure-5 .
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. The photos are attached as Annexure-10 .
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	The width & height of the benches were maintained as 5m * 5m. The bench photos are attached as Annexure-07 .
18.	Mats to reduce fly rock blast to a maximum of 10 PPV should be provided	Agreed.
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) was 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 Annexure-9 .
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. Photo is attached as Annexure 2 .
25.	The proponent should plant trees at least 5 times the loss that has been occurred while clearing the land for the project.	Plantation is 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 Annexure-1 .
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 Annexure-12 .
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 KSPCB Consent is attached as Annexure-14 .
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. <ul style="list-style-type: none">• PESO License is attached as Annexure-12.• KSPCB Consent is attached as Annexure-14.
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 (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	Noted.
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 www.seiaakerala.org . The advertisement should be made within 10 days from the date of receipt of the clearance letter and a copy of the same signed in all the pages should be forwarded to the Office of this Authority as confirmation	Complied. Photos are attached as Annexure 10 .
36.	A copy of the clearance letter shall be sent by the proponent to the concerned Gram Panchayat/District Panchayat/Municipality/Corporation/Urban local	A copy of the Clearance was submitted to the concerned authorities.

	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.	
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 compliance reports are submitted as stipulated to State Environmental Impact Assessment Authority and the Regional Office of MoEF&CC, Bangalore.
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 Clearance is prominently displayed at the entrance to the Mine. Photo of the EC 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.	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 and unloading points & transfer point to reduce fugitive emissions.	Monitoring of Ambient Air Quality was carried out. Monitoring Photos and reports have been enclosed as Annexure-13 and Annexure-15 respectively. Water sprinkling is done in appropriate places.
43.	The topsoil, if any, shall be temporarily be stored at earmarked site(s) only for the topsoil shall be used for land reclamation and plantation. The Over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8 m and the width 20 m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo-textiles shall be undertaken for stabilization of the dump. The entire excavated area should continue until the vegetation becomes self- sustaining.	Available topsoil is being used for plantation. OB generated is stacked separately and will be vegetated with locally available shrubs and grasses. Photo of the OB Dump is attached as Annexure-08 .
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,	Catch drains and siltation ponds are made around the mining workings, mineral and the water from the drain is directed to the Rainwater 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

	green belt development, etc. The drains shall be regularly de silted particularly after monsoons and maintained properly.	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 this regard.	Regular water sprinkling is being done on all necessary roads with water sprinklers. Photos of sprinklers are attached as Annexure-6 .
46.	Fugitive dust emissions from all sources should be controlled regularly. Water spraying arrangements on haul roads, loading and unloading and transfer points should be provided and properly maintained.	Fugitive dust emissions are controlled by carrying out water sprinkling regularly 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. Noise monitoring photos are attached as Annexure – 13 .
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 environmental 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	Agreed

	office (s) of the Regional office by furnishing the requisite data/information/monitoring reports.	
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.	Agreed
53.	The SEIAA may revoke or suspend the order for non-implementation of any of the specific or this implementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of the environment protection	Agreed
54.	The above conditions shall prevail notwithstanding anything to the contrary, inconsistent or simplified, contained in any other permit, license or consent given by any other authority for the same project.	Agreed
55.	The order is valid for a period of 5 years of the expiry date of Mine lease period issued by the Government of Kerala, whichever is earlier.	Agreed
56.	The Environment Clearance will be subject to the final order of the courts in any pending litigation related to the land or the project, in any court of law.	Agreed
57.	The Mining operations shall be restricted to above ground water table, and it should not intersect ground	Mining operations will be restricted to above ground water table and due care will be taken so that mining does not

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

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



Mr. Nisarudeen
Partner

Date: 08-10-2024

PLANTATIONS



RC32+JQW, Chunangad, Kerala 679511, India

Latitude
10° 48' 15.234" N

Longitude
76° 24' 6.414" E

Local 12:24:34 PM
GMT 06:54:34 AM

Altitude 64 meters
Saturday, 21.09.2024



RC32+JQW, Chunangad, Kerala 679511, India

Latitude
10° 48' 17.616" N

Longitude
76° 24' 7.824" E

Local 12:39:29 PM
GMT 07:09:29 AM

Altitude 64 meters
Saturday, 21.09.2024



RC32+JQW, Chunangad, Kerala 679511, India

Latitude
10° 48' 15.06" N

Longitude
76° 24' 6.204" E

Local 12:24:05 PM
GMT 06:54:05 AM

Altitude 64 meters
Saturday, 21.09.2024



RC32+JQW, Chunangad, Kerala 679511, India

Latitude
10° 48' 17.994" N

Longitude
76° 24' 7.632" E

Local 12:39:51 PM
GMT 07:09:51 AM

Altitude 72 meters
Saturday, 21.09.2024

COVERED TRUCKS



BOUNDARY PILLAR & FENCING



SIGN BOARDS





RC32+JQW, Chunangad, Kerala 679511, India

Latitude 10° 48' 15.432" N Longitude 76° 24' 6.57" E
Local 12:23:20 PM Altitude 64 meters
GMT 06:53:20 AM Saturday, 21.09.2024



RC32+JQW, Chunangad, Kerala 679511, India

Latitude 10° 48' 15.432" N Longitude 76° 24' 6.576" E
Local 12:23:24 PM Altitude 64 meters
GMT 06:53:24 AM Saturday, 21.09.2024



RC32+JQW, Chunangad, Kerala 679511, India

Latitude 10° 48' 15.054" N Longitude 76° 24' 6.588" E
Local 12:21:27 PM Altitude 64 meters
GMT 06:51:27 AM Saturday, 21.09.2024



RC32+VG, Chunangad, Kerala 679511, India

Latitude 10° 48' 18.918" N Longitude 76° 24' 8.31" E
Local 12:27:45 PM Altitude 72 meters
GMT 06:57:45 AM Saturday, 21.09.2024



RC32+JQW, Chunangad, Kerala 679511, India

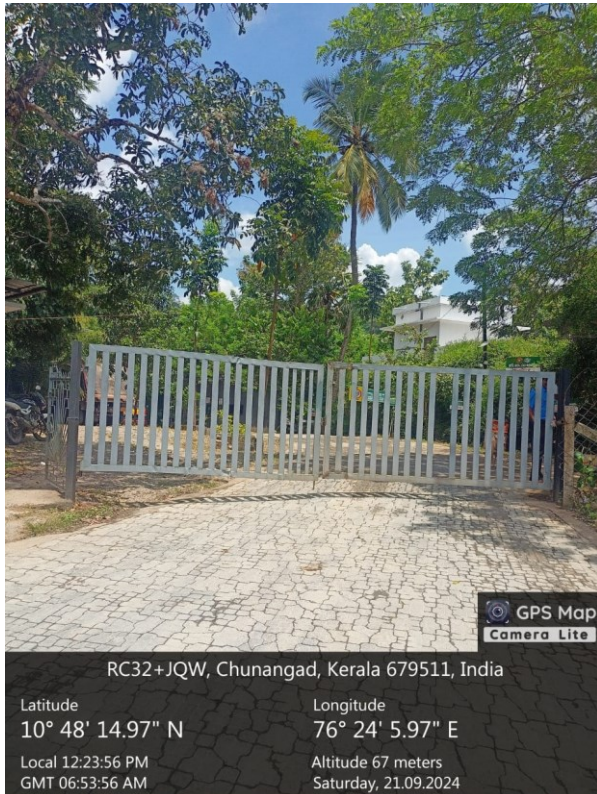
Latitude 10° 48' 16.176" N Longitude 76° 24' 6.6" E
Local 12:25:02 PM Altitude 64 meters
GMT 06:55:02 AM Saturday, 21.09.2024



RC32+JQW, Chunangad, Kerala 679511, India

Latitude 10° 48' 14.47524" N Longitude 76° 24' 6.06096" E
Local 12:22:43 PM Altitude 64 meters
GMT 06:52:43 AM Saturday, 21.09.2024

ACCESS ROADS



WATER SPRINKLERS



RC32+JQW, Chunangad, Kerala 679511, India

Latitude	Longitude
10° 48' 16.416" N	76° 24' 6.72" E
Local 12:25:36 PM	Altitude 64 meters
GMT 06:55:36 AM	Saturday, 21.09.2024



RC32+JQW, Chunangad, Kerala 679511, India

Latitude	Longitude
10° 48' 17.178" N	76° 24' 7.35" E
Local 12:26:22 PM	Altitude 64 meters
GMT 06:56:22 AM	Saturday, 21.09.2024

BENCH SYSTEM



OVERDUMP



RAINWATER HARVESTING POND, SAND SETTLING POND AND GARLAND DRAIN



ADVERTISEMENTS

നോട്ടീസ്

നോട്ടീസ് പൊതുജന പ്രസ്താവനയായി കേരള സംസ്ഥാനം, പാലക്കാട് ജില്ല, ഒറ്റത്താലം താലൂക്ക്, അമ്പലപ്പാറ ഗ്രാമ പഞ്ചായത്തിലും അമ്പലപ്പാറ II വില്ലേജിലും ഉൾപ്പെട്ട സർവ്വേ നമ്പർ.135 ൽ പാറഖനനം ചെയ്യുന്നതിനുമുമ്പെ പരിസ്ഥിതി അനുമതി പി.പി.കെ. ഗ്രാമീനേഴ്സ് & ക്രഷർ പ്രൊഡക്ട്സ് പ്രൈവറ്റ് ലിമിറ്റഡ് എന്ന സ്ഥാപനത്തിന് ഡിസ്ക്രിട്ട് എൻവൈറോൺമെന്റ് ഇംപാക്ട് അസസ്സ്മെന്റ് അതോറിറ്റിയിൽ (DEIAA) നിന്നും 21.04.2017-ാം തീയതി എൻവൈറോൺമെന്റ് ക്ലിയറൻസ് നമ്പർ : 4/16 (E/2703/16 DEIAA)-ാം ഓർഡർ പ്രകാരം ലഭിച്ചിരിക്കുന്നു. ഈ ഓർഡറിന്റെ പകർപ്പ് environmentalclearance.nic.in എന്ന വെബ്സൈറ്റിൽ ഡിസ്ക്രിട്ട് പോർട്ടൽ ലഭ്യമാണ്. പി.പി.കെ. ഗ്രാമീനേഴ്സ് & ക്രഷർ പ്രൊഡക്ട്സ് പ്രൈവറ്റ് ലിമിറ്റഡ് ചുമതലയ്ക്ക് പോസ്റ്റ്

NOTICE

This is to inform to the General Public that a quarry project at survey No.135 of M/S. PPK GRANITES & CRUSHER PRODUCTS PRIVATE LIMITED at Ambalappara II Village, Ambalappara Grama Panchayat, Ottapalam Taluk, Palakkad District, Kerala is accorded with ENVIRONMENTAL CLEARANCE by District Environment Impact Assessment Authority (DEIAA), Palakkad vide order No. 4/16 (E/2703/16/DEIAA) Date : 21.04.2017 and the Copy of the Environmental clearance is available with the office of District Environment Impact Assessment Authority (DEIAA), Palakkad and may also be seen on the website of the authority at environmentalclearance.nic.in.

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

ENVIRONMENTAL MONITORING CELL

Sl no.	Name	Post
1.	Shri. Nizarudeen	Head of Monitoring Cell
2.	Mr. Shiju Shuhaib	In Charge
3.	Mr. Pankaj Naik	Member
4.	Mr. Mugdum Vijay Rahu	Member
5.	Mr. George Joseph	Member

EXPLOSIVE LICENSE

अनुज्ञाप्ति प्ररूप एल. ई.-3 | LICENCE FORM LE-3

(विस्फोटक नियम, 2008 की अनुसूची 4 के भाग 1 के अनुच्छेद 3(क) से (घ) देखिए।)

(See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008)

(ग) उपयोग के लिए एक समय पर वर्ग 1,2,3,4,5 या वर्ग 7 के विस्फोटक या किसी मैगजीन में वर्ग 6 के विस्फोटक रखने के लिए अनुज्ञाप्ति

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

अनुज्ञाप्ति सं. (Licence No.) : E/SC/KL/22/1098(E55834)

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

1. Licence is hereby granted to

Shri. GEORGE JOSEPH (अधिभागी / Occupier : Shri George Joseph, Director), Director,
PPK Granites & Crusher Products(P)Ltd, Poonattil House, Ayavana P.O, Enanallur,
Moovattupuzha, Town/Village - Enanallur, District-ERNAKULAM, State-Kerala, Pincode
686676

को अनुज्ञाप्ति अनुदत्त की जाती है।

2. अनुज्ञाप्तिधारी की प्रास्थिति | Status of licensee : Individual

3. अनुज्ञाप्ति निम्नलिखित प्रयोजनों के लिए विधिमान्य है।

Licence is valid only for the following purpose.

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

4. अनुज्ञाप्ति विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमान्य है।

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

क्र	नाम और विवरण	वर्ग और प्रभाग	उप-प्रभाग	मात्रा किसी एक समय में
Sr. No.	Name and Description	Class & Division	Sub-division	Quantity at any one time
1.	Nitrate Mixture	2,0	0	75 Kg.
2.	Safety Fuse	6,1	0	1000 Mtrs
3.	Electric Detonators	6,3	0	1000 Nos.
4.	Ordinary Detonator	6,3	0	3000 Nos.

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

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

30 times
as above.

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

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

रेखाचित्र क्र. (Drawing No.) E/SC/KL/22/1098
: (E55834)
दिनांक (Dated) 25/03/2021

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

Survey No. 26/2 , ग्राम (Town/Village) : Ambalappar-2, पुल्लप्पलम तालुक (Police Station) : OTTAPALAM
जिला (District) PALAKKAD राज्य (State) Kerala पिनकोड (Pincode) 679511
दूरभाष (Phone) 9349457743 ई. मेल (E-Mail) jkumar.jk.14@yahoo.com फेक्स (Fax)

7. अनुज्ञाप्ति परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं।

The licensed premises consist of following facilities.

STONE MASONARY MAGAZINE CONSISTING
: OF HIGH EXPLOSIVES ROOM AND
DETONATOR ROOM SEPERATELY

8. अनुज्ञाप्ति समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबंधों के अधीन रहते हुए अनुदत्त की जाती है।

The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures.

1. उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सन्निर्माण संबंधी और अन्य विवरण दर्शित करते हुए Drawings (showing site, constructional and other details) as stated in serial No. 5 above.
 2. अनुज्ञप्ति प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञप्ति की शर्तें और अतिरिक्त शर्तें।
Conditions and Additional Conditions of this licence signed by the licensing authority.
 3. दूरी प्ररूप DE-2 | Distance Form DE-2.
9. यह अनुज्ञप्ति तारीख 31 मार्च 2015 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2015.

यह अनुज्ञप्ति, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपवर्णित इस अनुज्ञप्ति की शर्तों का अधिक्रमण करने या यदि अनुज्ञप्त परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंहत की जा सकती है, जहां वह लागू हो।

This licence is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under Set VIII, wherever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and Annexure attached hereto.

तारीख | The Date - 01/10/2010

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

Amendments :

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 06/04/2017
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 21/01/2021
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 25/03/2021

Transfers :

- Change in Licensee Name/Address/Status dated : 17/09/2012

नवीनीकरण के पृष्ठांकन के लिए स्थान
Space for Endorsement of Renewal

उप मुख्य विस्फोटक नियंत्रक
Deputy Chief Controller of Explosives
एरनाकुलम Ernakulam

नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature of licensing authority and stamp
21/01/2019	31/03/2024	Sd/- Dy. Chief Controller of Explosives, Ernakulam

कानूनी चेतावनी : विस्फोटकों को गलत ढंग से चलाने या उनका दुरुपयोग विधि के अधीन गंभीर दंडिक अपराध होगा।

Statutory Warning : Mishandling and misuse of explosives shall constitute serious criminal offence under the law.

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

MONITORING PHOTOS



CONSENT -KSPCB

File ref.No. 9067



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(Nm ³ /Hr)	Stack Height above		Control Equipment
			Ground Level(In Meters)	Roof Level(In Meters)	

III. CONDITIONS

MONITORING REPORT



GLOBAL ENVIRONMENT & MINING SERVICES

(Consulting Engineers, Mine designers, Geologist & Surveyors)
NABL & MOEFCC RECOGNIZED LABORATORY

3rd 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: 31.07.2024

Analysis Report of Ambient Air Quality Monitoring

1	Name of the Customer/Address	: Granite Building Stone Quarry of M/s PPK 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-TC532324000002089F

Results

Date of Monitoring	PM10 [$\mu\text{g}/\text{m}^3$]	PM2.5 [$\mu\text{g}/\text{m}^3$]	SO ₂ [$\mu\text{g}/\text{m}^3$]	NO ₂ [$\mu\text{g}/\text{m}^3$]
	IS : 5182: (Part 23) 2006 (RA 2012)	USEPA 2001	IS : 5182:(Part 2) 2001 (RF 2014)	IS : 5182:(Part 6) 2006 (RF 2014)
26.07.2024	57.4	23.0	13.2	13.9
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****

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.



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NABL

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e-mail : gems_hpt@yahoo.com,

Website : www.globalmining.in

GEMS-LD/TF/11/01

Date: 31.07.2024

Analysis Report of Ambient Air Quality Monitoring

- Granite Building Stone Quarry of
M/s PPK 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 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 : **Murugumpetta**
 - 7 Report Number : ULR-TC532324000002090F

Results

Date of Monitoring	PM10 [$\mu\text{g}/\text{m}^3$]	PM2.5 [$\mu\text{g}/\text{m}^3$]	SO ₂ [$\mu\text{g}/\text{m}^3$]	NO ₂ [$\mu\text{g}/\text{m}^3$]
	IS: 5182: (Part 23) 2006 (RA 2012)	USEPA 2001	IS: 5182: (Part 2) 2001 (RF 2014)	IS: 5182: (Part 6) 2006 (RF 2014)
27.07.2024	54.1	20.1	12.1	13.5
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



Authorized Signatory
K. Ramakrishna Reddy
Technical Manager

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

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Ph : +918394 229433, 295018

e-mail : gems_hpt@yahoo.com,

Website : www.globalmining.in

GEMS-LD/TF/11/01

Date: 31.07.2024

TEST REPORT OF AMBIENT NOISE LEVEL MONITORING

- 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 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 : 27.07.2024
- 7 Report No : ULR-TC532324000002091F

Results

Date	26.07.2024	27.07.2024
Name of the Location	Core Zone	Murugumpetta
Time (hrs)	N1	N2
6.00	40.5	37.5
7.00	41.6	40.1
8.00	42.9	41.6
9.00	47.4	45.3
10.00	54.6	51.5
11.00	58.9	54.4
12.00	57.1	51.1
13.00	56.1	48.7
14.00	53.6	50.7
15.00	54.6	50.9
16.00	56.7	52.8
17.00	58.1	57.9
18.00	53.6	48.2
19.00	51.5	47.5
20.00	45.7	46.5
21.00	43.9	45.4
22.00	40.7	41.9
23.00	38.6	38.6
00.00	38.4	36.5
01.00	39.0	35.4
02.00	37.1	34.1
03.00	34.9	35.4
04.00	35.6	36.5
05.00	37.2	37.6



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Website : www.globalmining.in

ULR-TC532324000002091F		
L max	58.5	57.5
L min	34.9	33.9
Ld	54.12	50.73
Ln	37.86	37.40
Leq	52.14	48.81

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

Note	Day time shall mean from 6:00 am and 10:00 pm
	Night time shall mean from in between 10:00 pm and 5:00 am
	Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority
	Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority
	*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which relatable to human being
	A "decibel" is a unit in which noise is measured
	"A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
	Leq: It is energy mean of the noise level over a specified period.



R.R.R.
Authorized Signatory
 Technical Manager

- Approved by NABL & Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
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(Consulting Engineers, Mine designers, Geologist & Surveyors)

NABL & MOEFCC RECOGNIZED LABORATORY

3rd 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: 31.07.2024

ANALYSIS REPORT OF WATER QUALITY DATA

Granite Building Stone Quarry of

M/s PPK 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 : 26.07.2024
- 6 Date of sample Received : 28.07.2024
- 7 Date of sample Analyzed : 30.07.2024
- 8 Report Number : ULR-TC532324000002092F

SL No.	Parameters	Unit	Result	Test Protocol	Requirement/Limit IS : 10500 : 2012	
					Acceptable	Permissible
1.	pH	-	7.09	APHA 22 nd Edition 2012 4500 B (Pg No. 4-92 to 4-96)	6.5	8.5
2.	Colour*	Hazen	<5	IS: 3025 (PART 14)- 1984, RA- 2012 Platinum cobalt Method	5	15
3.	Taste*	-	Ag	IS 3025 Part 8 1984	Ag	Ag
4.	Odour*	-	Ag	IS: 3025 (Part 5) – 1983, Ra-2012, True Odour	Ag	Ag
5.	Turbidity	NTU	1.46	APHA 22 nd Edition 2012 2130 B (Pg No. 2-14)	1	5
6.	Conductivity	µS/cm	179	APHA 22 nd Edition 2012 2510 B (Pg No. 2-54)	-	-
7.	Total Dissolved Solids	mg/L	185	APHA 22 nd Edition 2012 2540 B (Pg No. 2-65)	500	2000
8.	Total Alkalinity as CaCO ₃	mg/L	74	APHA 22 nd Edition 2320 B (Pg No. 2-35)	200	600
9.	Total Hardness as CaCO ₃	mg/L	150	APHA 22 nd Edition 2012 2340 C (Pg No. 2-46)	200	600
10.	Calcium as Ca	mg/L	47	APHA 22 nd Edition 2012 3500 Ca B (Pg No. 3-84)	75	200
11.	Magnesium as Mg	mg/L	40	APHA 22 nd Edition 2012 3500 B-Mg By Calculation	30	100
12.	Chloride as Cl	mg/L	20.6	APHA 22 nd Edition 2012 4500 Cl (Pg No. 4-72)	250	1000
13.	Sulphate as SO ₄	mg/L	38	APHA 22 nd Edition 2012 4500 SO ₄ – E (Pg No. 4-190)	200	400
14.	Nitrates as NO ₃	mg/L	10.6	APHA 23 rd Edition - 4500 NO ₃ – E (Pg No. 4-131 to 4-132)	45	NR
15.	Nitrate Nitrogen as NO ₃	mg/L	28	APHA 22 nd Edition 2012 4500 NO ₃ E (Pg No. 4-125 to 4-127)	45	no relaxation



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

Note:

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

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16.	Fluoride as F	mg/L	0.66	APHA 23 rd Edition 2017 4500 F-D (Pg No. 4-90 to 4-91)	1.0	1.5
17.	Iron as Fe	mg/L	0.27	APHA 23 rd Edition – 3500 Fe-B (Pg No. 3-80 to 3-82)	0.3	NR
18.	Sodium as Na	mg/L	8.7	APHA 23 rd Edition 2017 Na 3500 B (Pg No. 3-99 to 3-100)	-	-
19.	Potassium as K	mg/L	0.56	APHA 23 rd Edition 3500 K B (Pg No. 3-89 to 3-90)	-	-
20.	BOD 3 days at 27° C	mg/L	NIL	IS:3025 (P.44) – 1993, RA-2014,	-	-
21.	COD as O ₂	mg/L	NIL	APHA 23 rd Edition 5220 C (Pg No. 5-18 to 5-19)	-	-
22.	Oil & Grease	mg/L	NIL	APHA 23 rd Edition 5520 B (Pg No.5-41 to 5-42)	0.5	NR
23.	Cadmium as Cd*	mg/L	<0.001	APHA 23 RD Edition-3111 –B (Pg No.3-20 to 3-21)	0.003	NR
24.	Copper as Cu	mg/L	<0.001	APHA-23 RD Edition 3111-B (Pg No.3-20 to 3-21)	0.02	1.5
25.	Nickel as Ni	mg/L	<0.001	APHA-23 RD Edition-3111 –B (Pg No. 3-20 to 3-21)	0.02	NR
26.	Zinc as Zn	mg/L	<0.1	APHA-23 RD Edition-3111-B (Pg No. 3-20 to 3-21)	5	15
27.	Salinity*	PPT	NIL	APHA-23 RD Edition-3111-B (Pg No. 3-20 to 3-21)	-	-
28.	Total Phosphorous	mg/L	<0.01	APHA-23 RD Edition 4500-D (Pg No. 4-154)	-	-
29.	Total Coliforms*	MPN/ 100ml	Ab	APHA 22 nd Edition 9222 B (Pg No.9-78)	-	-
30.	Feecal Coliforms	MPN/ 100ml	Ab	APHA 22 nd Edition 9222 D (Pg No.9-85)	-	-
31	Phyto Plankton*	Unit/L	Ab	APHA 23 rd Edition 10200 F (Pg No.10-17)	-	-

Note: BDL Below Detectable Limit

Ag: Agreeable
NR: No Relaxation
RA: reaffirmed
Ab: Absent

Location: Murugumpetta

End of report

Analyzed By
ChemistAuthorized Signatory
Technical Manager

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



RC32+JQW, Chunangad, Kerala 679511, India

Latitude
10° 48' 16.356" N

Longitude
76° 24' 6.54" E

Local 12:25:25 PM
GMT 06:55:25 AM

Altitude 64 meters
Saturday, 21.09.2024