

COMPLIANCE REPORT FOR QUARRY PROJECT OF M/s PPK GRANITES & CRUSHER PRODUCTS Pvt. LTD.

SURVEY NO. : 135
EXTENT : 2.4374 HECTARES
VILLAGE : AMBALAPPARA - II
TALUK : OTTAPPALAM
DISTRICT : PALAKKAD
STATE : KERALA

ENVIRONMENTAL CLEARANCE NO. 4/16

(FILE NO: E/2703/16/DEIAA, DATED: 21-04-2017)

FOR THE PERIOD FROM OCTOBER 2020 TO MARCH 2021

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ABOUT THE PROPONENT

Mr. George Joseph, Director of M/s PPK Granites & Crusher Products Pvt. Ltd in Ambalappara-II Village and Ottapalam Taluk, Palakkad District, Kerala state.

District Environment Impact Assessment Authority (DEIAA) Palakkad, Kerala, accorded Environmental Clearance No. E/2703/16/DEIAA dtd. 21-04-2017 (EC No: 4/16) to the quarry project Building Stone Quarry of M/s PPK Granites & Crusher Products Pvt. Ltd in Ambalappara-II Village, Ottapalam Taluk, Palakkad District, Kerala managed by Mr. George Joseph.

II. ABOUT THE PROJECT

a. Project Category:

The project comes under the Category B, Activity 1(a), (i) of Schedule of EIA Notification 2006 and subsequent amendments.

b. Project Location:

- i. Survey Nos. 135 at Ambalappara-II Village, Ottapalam Taluk, Palakkad District, Kerala State.

The proposed project site falls within latitude and longitude value:

Latitude (N)	10°48'19.6" N to 10°48'26.02"N
Longitude (E)	76°24'05.34"E to 76°24'12.08"E

c. Project Extent And Activity:

The project is for quarrying of 71,000 MT PA of building stone from an area of 2.4374 hectares.

d. Project Description:

M/s PPK GRANITES has obtained environmental clearance by DEIAA for 5 years and the validity expires on 20-04-2022. The proposed Granite (Building Stone) quarry over an area of 2.4374 hectares is located in Ambalappara-II Village, Ottapalam Taluk, Palakkad District, Kerala State The proponent has obtained approval for mining plan to produce 71,000 metric tonnes of building stone per annum. And the total project cost for the project is 85 lakhs.

III. REPORT OF COMPLIANCE

A. SPECIFIC CONDITIONS

ITEM NO	STIPULATIONS IN EC	STATUS OF COMPLIANCE	REMARKS
S-1	Mines manager shall be appointed to control, direct, manage and supervise the quarrying operations as required under the mines Act, 1952	Mines manager is appointed to integrate the quarrying operations.	Annexure -2
S-2	Health and welfare measures for the persons employed shall be implemented.	Measures for the welfare and health employee's implemented	
S-3	Controlled blasting should be practiced and blasting shall be done only during day time. The mitigative measures for control of ground vibrations to arrest the fly rocks and boulders should be implemented.	Controlled blasting is done only during the day time, and Mitigative measures are adopted.	
S-4	Plantation shall be done which includes a green belt of adequate width around the mining lease area excluding the rocky area, along roads, overburden dumps and non-mineralized area by planting suitable native species in consultation with the local DFO/Agriculture Department.	Scrupulously will follows the direction contained	
S-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 be done every before the onset of monsoon.	Garland drains are provided to channelize Surface water.	Plate -17
S-6	Fencing must be maintained properly all around the lease area.	Fencing is maintained properly, around the lease area	Plate -1
S-7	The CSR need redrafting with inclusion of felt needs of the locality	Scrupulously will follows the direction contained.	
S-8	Appropriate sign boards should be displayed.	Sign boards are displayed,	Plate -6
S-9	The blasting time must be displayed and strictly adhered to.	Blasting time is displayed	Plate -13
S-10	The PPV values must be less than 100mm/sec	Scrupulously will follows the direction contained	
S-11	Dust suppression mechanism must be in place	Dust suppression mechanism is present	Plate -18
S-12	A separate small plot to be maintained in the premise to preserves rare and endemic species, if any, listed in the biodiversity assessment etc.	There is no endemic and endangered species noticed in the lease area.	

B. GENERAL CONDITIONS

ITEM NO	STIPULATIONS IN EC	STATUS OF COMPLIANCE	REMARKS
G-1	Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR,	Provision is made for storage of rain water	Plate -15
G-2	Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.	An environmental cell (EMC) was formed with Mr. George Joseph as head of the monitoring cell and made functional. Meeting of monitoring cell is arranged every month and discussed the status of the compliance of the specific and general conditions contained in the environmental clearance (EC) order.	Annexure -2
G-3	Suitable avenue trees should be planted along either side of tarred road and open parking areas, if any, inclusive of approach road and internal roads.	Avenue trees by way of natural vegetation are present along either side of the tarred road,	Plate -5
G-4	Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.	Scrupulously follow the direction contained	
G-5	Sprinklers shall be installed and used in the project site to contain dust emissions.	Fixed water sprinkling system was installed along the road sides of the project area to a length of 25 m. the road system without sprinklers is periodically watered by sprinkler system installed in the quarry road.	Plate -18
G-6	Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.	It is assured that eco-restoration including the mine closure plan will be done at the own cost of the project proponent.	
G-7	At least 10 percent out of the total excavated pit area should be retained as water storage areas 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 pit is stipulated in the E.C	After the closure of the mine, ten percent of the excavated pit area will be retained as water storage area. It is proposed to develop a green belt in the remaining area with indigenous plant species after reclamation of the mined area with stacked top soil and overburden.	

G-8	Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented in tune with the conditions specified in the Companies Act, 2013.	Corporate social responsibility activities are effectively implemented	Annexure -4
G-9	The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mining. All the boundary indicators (boards, stores, markings, etc.) shall be protected at all times and shall be conspicuous.	Barbed metal wire fencing is installed around the mining area with a height of 4 ft to prevent falling of animals/ human/ belongings/dumping of garbage's etc.	Plate -6
G-10	Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per Stipulations of Explosive Department.	Warning alarms are arranged in the project area and working properly. the time of blasting in the quarry is 1 pm to 2 pm and 5 pm to 6 pm on all working days	Plate -14
G-11	Control measures on noise and vibration prescribed by KSPCB should be implemented.	Control measures on noise and vibration is as per KPSCB	
G-12	Quarrying activities should be limited to daytime as per KSPCB guidelines/specific conditions.	Quarrying activities are limited to day time only (7am to 5PM) as per KSPCB guidelines. The signage showing the quarrying time displayed near the access road.	Plate -10
G-13	Blasting should be done in a controlled manner as specified by the regulation of explosives Department or any other concerned agency.	The blasting is done in controlled manner as specified by the regulations of explosives Department..	
G-14	A licensed person should supervise/control the blasting operations.	A Licensed person is supervising the blasting operations within the quarry area.	Annexure - 8
G-15	Access roads to quarry shall be tarred to contain dust emissions that may arise during transportation of materials.	The access road was tarred for reducing the dust emission during the transportation.	Plate -4
G-16	Overburden materials should be managed within the site and used for reclamation of mine pit as per mine closure plan/ specific conditions.	The overburden materials are stored within the site.	Plate -2
G-17	Height of benches should not exceed 5 m and width should not be less than 5 m.	scrupulously will follow the directions contained.	Plate -7
G-18	Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.	Shall be complied	
G-19	Maximum depth of mining from general ground level at site shall not exceed 10m.	The maximum depth of mining is now above ground level.	
G-20	Non mining operations should be carried out at places having a slope greater than 45°.	No mining operation is carried out with a slope greater than 45°.	

G-21	Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB.	The crusher is not located within the quarry complex. It is located at survey no. 179/1, 179/2, Ambalappara –II Village. It is at a distance of about 1.5km from the quarry site and is located in north-west direction to the existing quarry. The crusher unit is established in an isolated area and it encircled by green belt.	
G-22	The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.	The workers on the site is provided with the required protective equipment such as ear muffs, helmet, etc	Plate -8
G-23	Garland drains with clarifiers to provided in the lower slopes around the core area to channelize storm water.	Storm water drains are provided within the project site to channelize the storm water to the storm water collection pond.	Plate -17
G-24	The transportation of minerals should be done in covered trucks to contain dust emissions.	The transportation of minerals is done in covered trucks to contain dust emissions.	Plate -9
G-25	The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.	Saplings of amla tree, guava tree, mahogany, bamboo, gooseberry and banana are planted	Annexure -3
G-26	Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations.	Not applicable	
G-27	Explosives should be stored in magazines in isolated place specified and approved by Explosive Department.	Explosives are stored in magazine located in isolated place specified and approved by the explosives department.	Plate -11
G-28	A Minimum buffer distance of 100 m from the boundary of the quarry to the nearest dwelling unit or other structure not being any facility for mining shall be provided .	Scrupulously follows the directions contained	
G-29	100 m buffer distance should be maintained from forest boundaries.	There is no forest area near the project site	

G-30	Consent from Kerala State Pollution, Control Board under Water and Air (Acts) should have been obtained before initiating mining activity.	Consent letter is attached	Annexure -6
G-31	All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.	<p>All statutory Approvals required for the quarrying activity is obtained for the project. The details regarding the same along with the copy of the statutory approvals are enclosed as annexure -5. Details of statutory Approvals are given below.</p> <ol style="list-style-type: none"> 1. Explosive license issued from Petroleum and Explosive safety Organization License (No. E/SC/KL/22/1098(E 55834) Valid upto 31-03-2024 	<ol style="list-style-type: none"> 1. Annexure - 5 attached Copy of explosive license issued from the petroleum and Explosives Safety Organization.
G-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 environmental parameters/ impacts as assessed, based on which only the EC is issued. The projects would require a fresh appraisal by this authority, for which the proponent shall apply and get the approval of this Authority.	Shall be complied.	

G-33	The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Shall be complied.	
G-34	The stipulations by Statutory Authorities under different Acts and Notifications should be complied with including the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.	Shall be complied.	
G-35	The project proponent should advertise in at least two local 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 Environmental Clearance and copies of 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 pages should be forwarded to the office of this Authority as confirmation.	Scrupulously follows the directions contained.	
	A copy of the clearance letter shall be sent by the proponent to concerned Grama Panchayat/ District Panchayat/ Municipality/ Corporation/	Copy of EC has been forwarded to the secretary	

G-36	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.		
G-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 email) and upload the Status of compliance of the stipulated EC conditions, including results of monitored data on their website. It shall sent to the respective Regional office of MoEF, Govt. of India and also to the State Environment Impact Assessment Authority (SEIAA) Office	Scrupulously follow the direction contained	
G-38	The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font of size of 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.	The details of the environmental clearance are prominently displayed with the specific conditions as per specifications mentioned in the condition. Sign board is also displayed showing lease area and boundaries at the entrance of the quarry.	Plate -12
G-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.	The proponent has provided notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC has been scrupulously followed.	
G-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.	The conditions of SEIAA/ DEIAA are strictly will followed	
G-41	The project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any	Ensured that no natural water course and/or water resources were obstructed	

	mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken.	due to any mining operations.	
G-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 Result (soft copy) is attached.	Annexure -7.
G-43	The top soil, if any, shall 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 dumpsite(s) only. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface runoff. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.	Scrupulously follows the directions contained as per the conditions.	
G-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 in to the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.	Mineral dumps and OB are maintained at the working site, in order prevent the runoff of water and sediments into water bodies. The drains are desilted regularly	Plate -3
G-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	Critical areas prone to air pollution being maintained wet using sprinkling system. Ambient air quality parameters are being met.	Annexure -7

	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.		
G-46	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained	Watering prescribed areas to restrict dust emission appropriately monitored and maintained.	
G-47	Measures should be taken for control of noise levels below 85DbA in the work environment.	Scrupulously follow the direction contained	
G-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.	Well- Qualified personal setup with a Senior Executive heading a separate Environmental Management Cell established for reporting directly to the head of the organization.	
G-49	The funds earmarked for environmental protection measures and CSR activities should be kept in separate account and should not be diverted for other purposes. Year wise expenditure should be reported to the State Environment Impact Assessment Authority (SEIAA) office.	Scrupulously follow the direction contained	
G-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 officer(S) of the Regional Office by furnishing the requisite data/information/monitoring reports.	The Regional office of MOEF &CC located at Bangalore will monitor compliance of the stipulated conditions. The project authorities will extend full cooperation to the officer(S) of the Regional Office by furnishing the requisite data/information/monitoring reports.	

G-51	Any appeal against this Environmental 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.	There is no appeal against EC.	
G-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 the provisions of Environment (Protection) Act, 1986	No such corruption has occurred in the data till date.	
G-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 environment protection.	The conditions of SEIAA/DEIAA are strictly followed.	
G-54	The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license on consent given by any other authority for the same project.	No situation pertaining violating terms and conditions.	
G-55	This order is valid for a period of 5 years or the expiry date of mine lease period issued by the Government of Kerala, whichever is earlier.	Duration of the order on validity of lease period issued by Government of Kerala will strictly be adhered to.	Annexure - 1
G-56	The Environmental Clearance will be subject to the final order of the courts in any pending litigation related to the land or project, in any court of law.	There is no fault in the land or project.	
G-57	The mining operation shall be restricted to above ground water table and it should not intersect ground water table.	Mining operation is not disrupting or intersecting with ground water table.	

G-58	All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution taking center. Washing of all vehicles shall be inside the lease area.	Vehicles used within mines have PUC certificate and washing of the vehicles areas alone inside the lease area.	
G-59	Project proponent should obtain necessary prior permission of the competent authorities for drawal of requisite quantity of surface water and ground water for the project.	Necessary permissions are and will be obtained as per the rules and regulations	
G-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.	The report of regular monitoring flows rates and water quality is given to the DEIAA in every six months	
G-61	Occupational health surveillance program of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	An efficient and approved surveillance program for workers being held periodically to ensure the health and safety of the workers.	

IV.ANNEXURES

ANNEXURE 1 - EC ORDER

**PROCEEDINGS OF THE DISTRICT ENVIRONMENT IMPACT ASSESSMENT
AUTHORITY, PALAKKAD**

(Present : P. Marykutty, IAS - Chairman, Afsana Perween, IAS - Member Secretary, Prof.Dr.A.V Santhoshkumar - Member, Samuel Vanapalgheta Pachau, Divisional Forest Officer - Member.)

Sub : DEIAA, Palakkad – Environmental Clearance – The granite building stone quarry project of Sri. George Joseph, PPK Granites & Crusher Products Pvt. Ltd, Chunangad (PO), Ottapalam.

Environmental Clearance

No.E/2703/16/DEIAA.

Dated : 21/04/2017.

- Ref :
- 1.No. SO 190(E) dt: 20/01/16 of MoEF Government of India.
 - 2.Lr. No. LRG 5-2016/37766/9 dt: 17/06/16 of District Collector, Palakkad.
 - 3.Lr. No. 4195/EC2/2015 SEIAA dt: 10/06/2016, 19/07/2016 of SEIAA, Palakkad.
 4. Online application filed by Sri. George Joseph, PPK Granites & Crusher Products Pvt. Ltd, Chunangad (PO), Ottapalam.
 5. Minutes of DEAC meeting held on 25/01/2017.
 6. Minutes of DEIAA meeting held on 09/03/2017.

Environmental Clearance No. 4/16

Sri. George Joseph, PPK Granites & Crusher Products Pvt. Ltd, Chunangad (PO), Ottapalam Taluk, Palakkad District has filed online application for the Environmental Clearance for the granite building stone quarry project of PPK Granites & Crusher Products Pvt. Ltd having an extent of 2.4374 Hectares of land in Survey Nos. 135 of Ambalappara-II Village.

After necessary verification done by Member Secretary, DEIAA, the application was forwarded to the District Expert Appraisal Committee (DEAC) for further necessary action. DEAC conducted site inspection on 21/01/2017 and a meeting on 25/01/2017. The DEAC recommended for issuance of Environmental Clearance for the granite building stone quarry project of PPK Granites & Crusher Products Pvt. Ltd in Survey Nos. 135 of Ambalappara-II Village of Ottapalam Taluk in which a buffer distance of more than 100 mtr has been maintained.

The meeting of DEIAA chaired by the Chairman, DEIAA & District Collector was convened on 09/03/2017 to consider the proposals submitted by DEAC. After discussion of all the proposals with the Member Secretary, DEIAA and other members present. DEIAA decided to issue Environmental Clearance to the proponent subject to the general conditions enclosed with this order plus the specific conditions mentioned below :

- 1)A Mines manager shall be appointed to control, direct, manage and supervise the

Quarrying operations as required under the Mines Act, 1952.

2) Health and welfare measures for the persons employed shall be implemented.

3) Controlled blasting should be practiced and blasting shall be done only during day time.

The mitigative measures for control of ground vibrations to arrest the fly rocks and boulders should be implemented.

4) Plantation shall be done which includes a green belt of adequate width around the Mining Lease area excluding the rocky area, along roads, overburden dumps and non mineralized area by planting suitable native species in consultation with the local DFO/Agriculture Department.

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 be done every year before the onset of monsoon.

6) Fencing must be maintained properly all around the lease area.

7) The CSR need redrafting with inclusion of felt needs of the locality.

8) Appropriate sign boards should be displayed.

9) The blasting time must be displayed and strictly adhered to.

10) The PPV values must be less than 10 mm/sec.

11) Dust suppression mechanism must be in place.

12) A separate small plot to be maintained in the premise to preserve rare and endemic species, if any, listed in the biodiversity assessment.

The proponent Sri. George Joseph, PPK Granites & Crusher Products Pvt. Ltd, Chunangad (PO), Ottapalam Taluk, Palakkad District has remitted the processing charge of Rs.1,00,000/- (Rupees One Lakh only) as per Chalan No. KL006684482201617 dt: 22/03/2017, District Treasury, Palakkad as one-time processing fee for Environmental Clearance in the name of O/o Member Secretary, DEIAA (Head of Account - 1425-00-501-99). Also the total amount of CSR activities (of 5 years) is Eight lakh Ninetytwo thousand five hundred rupees which needs to be redrafted as per specific condition No. 7.

The clearance issued will also be subject to full and effective implementation of all the undertakings given in the application form, mitigation measures in the Environment Management Plan in Chapter 7 of the Pre-Feasibility Report and the mining features including progressive mine closure plan as submitted with the application and relied on for grant of this clearance. The above undertakings and the conditions and undertakings in mining, blasting, mine drainage, progressive mine closure plan of the Mining Plan as submitted will be deemed to be part of this proceedings as

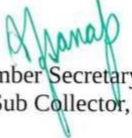
conditions as undertaken by the proponent, as if incorporated herein.

Validity of the Environmental Clearance will be five years from the date of this clearance, subject to earlier review in the event of genuine complaint from anybody from the safety area or violation or non-compliance of any of the conditions stipulated herein. An affidavit submitted by proponent regarding compliance of the general and specific conditions has to be scrupulously followed.

Under the circumstances stated above, sanction is hereby accorded to Sri. George Joseph, PPK Granites & Crusher Products Pvt. Ltd, Chunangad (PO), Ottapalam Taluk, Palakkad District for the building stone quarry project of PPK Granites & Crusher Products Pvt. Ltd in Survey Nos. 135 of Ambalappara-II Village of Ottapalam Taluk. EC will become operational only after fulfillment of all the pre-mining conditions.

Compliance of the conditions herein will be monitored by the Geologist, Palakkad.

1. Necessary assistance for entry and inspection should be provided by the project proponent and those who are engaged or entrusted by him to the staff for inspection or monitoring.
2. Instances of violation if any shall be reported to the District Collector, Palakkad to take legal action under the Environment (Protection) Act, 1986 and Notification No. SO 637 (E) dated 28/02/2014 of the Ministry of Environment and Forest, Government of India.


Member Secretary (DEIAA) &
Sub Collector, Palakkad

To

Sri. George Joseph, PPK Granites & Crusher Products Pvt. Ltd, Chunangad (PO),
Ottapalam Taluk, Palakkad District

- Copy to :
1. The Chairman, DEIAA & District Collector, Palakkad
 2. The Chairman, SEIAA.
 3. The Chairman, DEAC.
 4. The Tahsildar, Ottapalam.
 5. Geologist, Palakkad.
 6. Village Officer, Ambalappara-II.
 7. Divisional Forest Officer, Palakkad (Member of DEIAA)
 8. Dr.A.V. Santhoshkumar, Professor, Kerala Agricultural University
(Expert Member of DEIAA)
 9. Secretary, Ambalappara Grama Panchayath.

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA

GENERAL CONDITIONS (for mining projects)

1. Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified.
2. Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.
3. Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, including of approach road and internal roads.
4. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.
5. Sprinklers shall be installed and used in the project site to contain dust emissions.
6. Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.
7. At least 10 percent out of the total excavated pit area should be retained as water storage areas 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 pit is stipulated in the E.C.
8. Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented
9. **The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mining. All the boundary indicators (boards, stores, markings, etc) shall be protected at all times and shall be conspicuous.**
10. Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.
11. Control measures on noise and vibration prescribed by KSPCB should be implemented.
12. Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.
13. Blasting should be done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency.
14. A licensed person should supervise/ control the blasting operations.
15. Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.
16. Overburden materials should be managed within the site and 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 5 m, if there is no mention in the mining plan/specific condition.
18. Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.
19. Maximum depth of mining from general ground level at site shall not exceed 10m
20. No mining operations should be 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 brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB.
22. The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.
23. Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.
24. The transportation of minerals should be done in covered trucks to contain dust emissions.
25. The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.
26. Disposal of spent oil from diesel engines should be as specified under relevant Rules/ Regulations.
27. Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department.
28. A minimum buffer distance of 100m from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided.
29. 100 m buffer distance should be maintained from forest boundaries.

30. Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating mining activity.
31. All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.
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 environmental parameters/impacts as assessed, based on which only the E.C 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.
33. The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
34. The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
35. The project proponent should advertise in at least two local 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 Environmental Clearance and copies of 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 pages should be forwarded to the office of this Authority as confirmation.
36. A copy of the clearance letter shall be sent by the proponent to concerned Grama 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.
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 MoEF, Govt. of India and also to the State Environment Impact Assessment Authority (SEIAA) office.
38. The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font of size of 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
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.
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.
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.
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.
43. The top soil, if any, shall 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 8m and width 20m 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 shall be backfilled. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.
44. Catch drains and siltation ponds of appropriate size shall be constructed around the mine

- working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon 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 PM_{2.5} 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.
 46. Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.
 47. Measures should be taken for control of noise levels below 85 dBA in the work environment.
 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.
 49. The funds earmarked for environmental protection measures and CSR activities should be kept in 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.
 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 officer (S) of the Regional Office by furnishing the requisite data/information/monitoring reports.
 51. Any appeal against this Environmental 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.
 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 the provisions of 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 environment protection.
 54. The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license or consent given by any other authority for the same project.
 55. This order is valid for a period of 5 years or the expiry date of mine lease period issued by the Government of Kerala, whichever is earlier.
 56. The Environmental Clearance will be subject to the final order of the courts in any pending litigation related to the land or project, in any court of law.
 57. The mining operation shall be restricted to above ground water table and it should not intersect ground water table.
 58. All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution taking centre. Washing of all vehicles shall be inside the lease area.
 59. Project proponent should obtain necessary prior permission of the competent authorities for drawal of requisite quantity of surface water and ground water for the project.
 60. Regular monitoring of flow rates and water quality up stream and down stream 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.
 61. Occupational health surveillance program of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.

ANNEXURE 2 - ENVIRONMENTAL MONITORING CELL

An environmental monitoring cell was formed with Mr. George Joseph head of the monitoring cell and made functional. Meeting of monitoring cell is arranged monthly and discuss the status of the compliance of the specific and general conditions contained in the Environmental clearance order. The details of the monitoring cell members are given below:

Sl. No.	Post	Name
1	Head of the monitoring cell	Mr.George Joseph(Proprietor)
2	Head in charge (Environment)	Mr. Gopalakrishnan Nair KC, General manager
3	Senior Environmental Officer	Mr. Bibin Jolly, General manager
4	Environmental Officer	Mr Bibin Jolly, Quarry manager
5	Name of the environmental officer in charge	Mr. Guruswami, Mines manager
6	Name of the officer Environment, Health and safety	Mr. Kedar Ramdas Naik, Safety incharge
7	Name of the Assistant Officer of Environment, Health and safety	Mr Kedar Ramdas Naik, Quarry manager
8	Name of the environment laboratory	Standards Environmental Monitoring
9	Address of Environmental laboratory	Standards Environmental Monitoring, Ernakulam

ANNEXURE 3

Natural vegetation including trees, shrubs and herbs present in the quarry site are mentioned in the table below: -

Sl No.	Scientific Name	Common Name	Family
1	<i>Artocarpus heterophyllus</i>	Jack Fruit Tree	Moraceae
2	<i>Mangifera indica</i>	Mango Tree	Anacardiaceae
3	<i>Azadirachta indica</i>	Neem	Meliaceae
4	<i>Musa acuminata</i>	Banana	Musaceae
5	<i>Bambuseae</i>	Bamboo	Poaceae
6	<i>Nephelium lappaceum</i>	rambutan	Sapindaceae
7	<i>Phyllanthus emblica</i>	Amla tree	Phyllanthaceae
8	<i>Anacardium occidentale</i>	Cashew tree	Anacardiaceae
9	<i>Prunus dulcis</i>	almond tree	Rosaceae
10	<i>Psidium guajava</i>	Guava tree	Myrtaceae

ANNEXURE 4

CORPORATE ENVIRONMENT RESPONSIBILITY (CER)

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Author's address:

Abstract

CONCLUSIONS

www.elsevier.com/locate/jmrwww.fishbase.org

6374 J. Neurosci., September 24, 2008 • 28(39):6369–6377

Subject A/c Name:

PRASAD.V & ANILKUMAR
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ANNEXURE 5

EXPLOSIVE LICENSE



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

22 JAN 2021

संख्या (No.): E/SC/KL/22/1098(E55834)

दिनांक (Date): 21/01/2021

संवा में | To,

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

विषय : Survey No.26/2, ग्राम Ambalappur-2, Ottapalam taluk, जिला PALAKKAD, राज्य Kerala में मेसर्स
Shri. GEORGE JOSEPH द्वारा विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के
अंतर्गत LE-3 में जारी अनुज्ञप्ति सं E/SC/KL/22/1098(E55834) के संशोधन संदर्भ में।
(विस्फोटक की मात्रा / मासिक खरीद सीमा में परिवर्तन)

Subject: Possession for Use of Explosives from magazine situated at Survey No.:26/2, Ambalappur-
2, Ottapalam taluk, Dist. PALAKKAD, Kerala -Licence No.: E/SC/KL/22/1098(E55834) granted in
Form LE-3 of Explosives Rules, 2008 -
(Amendment of Quantity of Explosives/Monthly Purchase Limit).

महोदय | Sir,

आपका उपर्युक्त विषय पर पत्र संख्या 35761 दिनांक 05/01/2021 का संदर्भ ग्रहण करें।
Please refer to your letter no. 35761 dated 05/01/2021.

अनुज्ञप्ति संख्या E/SC/KL/22/1098(E55834) QUARRYING SHALL BE STARTED USING EXPLOSIVES ONLY
AFTER GRANT OF QUARRYING LEASE FROM THE DIRECTOR OF MINING & GEOLOGY. PLEASE
NOTE THAT THE USE OF EXPLOSIVES IN THE QUARRIES SHALL BE AS PER THE DIRECTION OF
DGMS, BANGALORE AS REQUIRED UNDER MINES ACT 1952 AND METALIFEROUS MINES
REGULATIONS 1961. के संदर्भ में यथा संशोधित कर भेजी जा रही है।

The Licence No.: E/SC/KL/22/1098(E55834) is forwarded herewith duly amended in respect of followings ;

QUARRYING SHALL BE STARTED USING EXPLOSIVES ONLY AFTER GRANT OF QUARRYING LEASE
FROM THE DIRECTOR OF MINING & GEOLOGY. PLEASE NOTE THAT THE USE OF EXPLOSIVES IN THE
QUARRIES SHALL BE AS PER THE DIRECTION OF DGMS, BANGALORE AS REQUIRED UNDER MINES
ACT 1952 AND METALIFEROUS MINES REGULATIONS 1961..

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	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.

किसी एक कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा (अनुच्छेद 3 (ख) और (ग) के अधीन अनुज्ञप्ति के लिए लागू) : 25 गुना
Quantity of explosives to be purchased in a calendar month[applicable for licence under article 3(b) and (c)] : 25 times as
above.

यह अनुज्ञप्ति दिनांक 31 मार्च 2024 तक प्रवृत्त रहेगी।

This Licence shall remain valid till 31st day of March 2024.

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भवदीय | Your's faithfully

(आर.वेणुगोपाल | Dr. R. Venugopal)

उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives

कोच्ची | Ernakulam

उप मुख्य विस्फोटक नियंत्रक
Deputy Chief Controller of Explosives

प्रतिलिपि प्रेषित | Copy Forwarded to:

1. District Magistrate, PALAKKAD, Kerala with reference to his Noc No: D3.2008/53540/D.Dis Dated: 08/06/2010
2. Superintendent of Police, PALAKKAD, Kerala.

उप मुख्य विस्फोटक नियंत्रक | Deputy 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>)

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

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

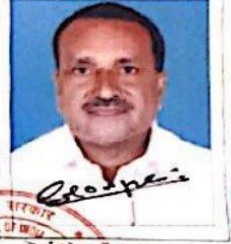
(See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008)

(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 अनुज्ञापि

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

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

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



1. Licence is hereby granted to

Shri. GEORGE JOSEPH (आधिभागी / 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

Space for photograph of the licensee



को अनुज्ञापि अनुदत्त की जाती है।

2. अनुज्ञापिधारी की प्रास्थिति | Status of licensee : Individual

3. अनुज्ञापि 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 Detonators, उपयोग के लिए

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

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

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 अनुज्ञापि के लिए]

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

25 times as above.

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञापि 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) 21/01/2021

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

Survey No. 26/2, ग्राम (Town/Village) : Ambalappur-2, Ottapalam taluk, पुलिस थाना (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. अनुज्ञापि परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं।

The licensed premises consist of following facilities.

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

8. अनुज्ञापि समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबद्धों 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.

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मेगलीन में
मेगलीन में

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 शर्तों और अतिरिक्ति शर्तों। 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

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 दांडिक अपराध होगा।

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

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(सेट VIII) Set VIII)

मैगजीन में वर्ग 1,2,3,4,5,6, और 7 के विस्फोटकों को बिक्री या प्रयोग हेतु रखने के लिए प्ररूप एल.ई. 3 (अनुच्छेद 3 (ख) से (ग)) में मुख्य विस्फोटक नियंत्रक या विस्फोटक नियंत्रक द्वारा प्रदान किए जाने वाले अनुज्ञापति सं. E/SC/KL/22/1098(E55834) की शर्त निम्नलिखित हैं।

The following are the conditions of licence number E/SC/KL/22/1098(E55834) to possess for sale or use, explosives of Class 1,2,3, 4, 5, 6 and 7 in a magazine in Form LE-3 (articles 3(b) to (c)) granted by Chief controller of Explosives or Controller of Explosives.

- परिसर में किसी भी समय विस्फोटकों की मात्रा अनुज्ञापन योग्य सामर्थ्य से अधिक नहीं होगी।
The quantity of explosives on the premises at any one time shall not exceed the licensable capacity.
- विस्फोटकों के भंडारण के लिए प्रयुक्त होने वाली मैगजीन अनुसूची III और अनुज्ञापति के उपाबंध में विनिर्दिष्ट सुरक्षा दूरी बनाए रखना होगा।
The magazine used for storage of explosives shall maintain safety distance specified in Schedule III and annexure to the licence.
- मैगजीन का प्रयोग उन सभी विस्फोटकों के, जो इस अनुज्ञापति में विनिर्दिष्ट है, रखे जाने के लिए और ऐसे रखे जाने से संबद्ध आधान या औजार या उपकरणों के रखे जाने के लिए ही किया जाएगा; अन्यथा नहीं।
The magazine shall be used only for keeping all explosives specified in this licence and of receptacles for, or tools or implements for work connected with the keeping of such explosives.
- पैकजों को खोलने का कार्य और विस्फोटकों को तोलने तथा पैक करने का कार्य मैगजीन में नहीं किया जाएगा।
The opening of packages and the weighing and packing of explosives shall not be carried on in the magazine.
- दो या दो से अधिक वर्णन के विस्फोटकों को, जिन्हें मैगजीन में रखे जाने की अनुज्ञा दी जा सकती है, मैगजीन में तभी रखे जाएंगे जब उनमें से प्रत्येक को, ऐसे पदार्थ या स्वरूप का कोई मध्यवर्ती विभाजक लगाकर या उनके बीच ऐसा मध्यवर्ती स्थान छोड़कर, परस्पर पृथक् कर दिया जाए कि किसी बजह से विस्फोटक में लगने वाली आग या होने वाला विस्फोट किसी अन्य वर्णन के विस्फोटक तक न पहुंच सके; परंतु -
(घ) 2 (नाइट्रेट मिश्रण), वर्ग 3 (नाइट्रो योमिक) के विभिन्न विस्फोटक, वर्ग 6 प्रथम प्रभाग के अंतर्गत आने वाले सुरक्षा पत्तीते और वर्ग 6 प्रभाग 2 के अंतर्गत आनेवाले विस्फोटक प्रेरक पत्तीते, जिनमें कोई खुला लोहा या इस्पात नहीं है, एक दूसरे के साथ बिना किसी मध्यवर्ती विभाजक या स्थापन के रखे जा सकते हैं।
(ङ) वर्ग 6 प्रभाग 3 के अंतर्गत आनेवाले विस्फोटक प्रेरक अलग रखे जाएंगे।
(च) वर्ग 1 के अंतर्गत आने वाले बारूद को अलग रखा जाएगा।
Two or more description or explosives which may be permitted to be kept in the magazine shall be kept only if they are separated from each other by an intervening partition of such substance or character, or by such intervening space, as will effectually prevent explosion or fire in the one communicating with the other; Provided that—
(d) the various explosives of Class 2 (nitrate-mixture), Class 3 (nitro-compound), safety fuses belonging to Class 6 Division 1 and detonating fuses belonging to Class 6 Division 2 as do not contain any exposed iron or steel, may be kept with each other without any intervening partition or space;
(e) Detonators belonging to Class 6 Division 3 shall be kept separately.
(f) Gun powder belonging to Class 1 shall be kept separately.
- वर्ग 3 (नाइट्रो योमिक) के विस्फोटकों को, उनके विनिर्माण की तारीख से एक वर्ष बीत जाने के पश्चात सिवाय अनुज्ञापन प्राधिकारी की विशेष मंजूरी के मैगजीन में नहीं रखा जाएगा।
Explosives of Class 3 (nitro compound) shall not be kept in the magazine after the expiration of one year from the date of their manufacture except with the special sanction of licensing authority.
- वर्ग 3 (नाइट्रो योमिक) के विस्फोटकों को, उनके विनिर्माण की तारीख से एक वर्ष बीत जाने के पश्चात मैगजीन में तभी रखा जाएगा जब कि किसी विस्फोटक नियंत्रक ने इसके लिए विशेष मंजूरी दे दी हो।
(i) जब ऐसी मंजूरी दे दी गई हो तो प्रत्येक निरीक्षण पर किसी विस्फोटक नियंत्रक से ऐसा लिखित प्रमाणपत्र अभिप्राप्त कर लिया जाए जिसमें दी गई मंजूरी के अंतर्गत आनेवाली अवधि दर्शित की गई हो और ऐसे प्रमाणपत्र के अनुज्ञापिधारी अपने पास रखेगा और मांग की जाने पर प्रस्तुत करेगा।
(ii) जब कोई विस्फोटक मानक शुद्धता का न रह जाने के कारण या द्रवणीकरण या नाइट्रो म्तीअसरीन या द्रव नाइट्रो योमिक के निकल जाने के विन्द प्रकट होने के कारण मैगजीन में भण्डारित किए जाने के उपयुक्त नहीं रह जाता है तो अनुज्ञापिधारी अपने ही व्यय पर ऐसे विस्फोटक के निपटारे के लिए ऐसे निदेशों का अनुपालन करेगा जो मुख्य नियंत्रक या विस्फोटक नियंत्रक जारी करें।
Explosives of Class 3 (nitro compound) shall not be kept in the magazine after the expiration of one year from the date of their manufacture except with the special sanction of the Controller of Explosives.
(i) When such sanction has been given, a written certificate showing the period covered by the sanction shall be obtained from the Controller of Explosives at each inspection, and shall be kept by the licensee and produced on demand.
(ii) When an explosive owing to its being no longer of standard purity or owing to signs of liquefaction or of exuded nitro-glycerin or liquid nitro-glycerin or liquid nitrocompound is no longer fit for storage in the magazine or store house the licensee shall comply, at his own expense, with such directions as to its disposal as the Chief Controller or Controller of Explosives may issue.
- मैगजीन के भीतरी भाग या उसमें लगी बेंचो, शेल्फों और उसकी फिटिंग का इस प्रकार सन्निर्माण किया जाएगा या उन्हें इस प्रकार अंतरित या अवतरित किया जाएगा कि विस्फोटक का किसी लोहे या इस्पात के साथ संपर्क रोका जा सके। भीतरी भाग में लगी बेंचो, शेल्फों और फिटिंग यथासाध्य ग्रिट से मुक्त एवं साफ रखे जाएंगे तथा ऐसे विस्फोटक, जो जल से खतरनाक रूप में प्रभावित हो सकते हैं, इस बाबत सम्यक सावधानी बरती जाएगी कि वहां कोई जल मौजूद न रहे; परंतु किसी लोहे या इस्पात के खुले होने के विरुद्ध सावधानी से संबंधित इस शर्त का वह भाग ऐसे किसी भवन में बाधकर नहीं होगा जिसमें वर्ग 6 (गोला बारूद) के प्रथम के विस्फोटक से भिन्न कोई विस्फोटक रखा गया है।

उप मुख्य विस्फोटक नियंत्रक
Deputy Chief Controller of Explosives
एरनाकुलम Ernakulam

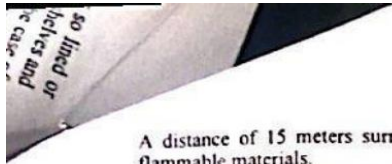
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The interior of the magazine and the benches, shelves and fittings therein shall be so constructed or so lined or covered as to prevent the exposure of any iron or steel contact with the explosives. Such interior, benches, shelves and fittings shall so far as is reasonably practicable, be kept free from grit and shall otherwise be clean, and in the case of any explosives liable to be dangerously affected by water, due precautions shall be taken to exclude water there from. Provided that so much of this condition as relates to precautions against the exposure of any iron or steel shall not be obligatory in a building in which no explosive other than explosive of the 1st Division 6th (Ammunition) Class is kept.

9. यदि तड़ित चालक का परीक्षण विस्फोटक नियंत्रक करता है तो अनुज्ञापिधारी ऐसे परीक्षण के लिए विहित फीस का संचाय करेगा यदि परीक्षण असमाधानकारी साबित होता है तो उतनी ही फीस अनुज्ञापिधारी द्वारा पश्चात्कर्ती प्रत्येक परीक्षण के लिए तब तक दी जाती रहेगी जब तक कि परीक्षण अधिकारी तड़ित चालक को समाधानप्रद घोषित नहीं कर देता : परंतु किसी एक परीक्षण के लिए देय फीस किसी एक दिन के दौरान किसी चालक के किए गए सभी परीक्षणों के लिए प्रभावी होगी परंतु यह और कि यदि दो या अधिक तड़ित चालक एक ही मैगजीन से संबद्ध हैं तो ऐसे सभी चालकों के परीक्षण के लिए फीस ऐसी किसी फीस से अधिक नहीं होगी जो किसी एक तड़ित चालक के परीक्षण के लिए हर स्थिति में विहित की गई है।
If the lightning conductor is tested by the Controller of Explosives, the licensee shall pay the fees prescribed for test. In the even of the test proving unsatisfactory, the same fees shall be payable by the licensee for each subsequent test until the lightning conductor is passed by the testing officer as satisfactory:
Provided that the fees payable for a single test shall be charged for all tests made on a conductor during any one day :
Provided further that where two or more lightning conductors are attached to one and the same magazine, the fee for the testing of all such conductors shall not exceed the fee prescribed in this condition for testing a single lightning conductor.
10. उपयुक्त तथा जेब रहित कार्यकरण वस्त्रों, उपयुक्त जूतों के प्रयोग द्वारा तथा तलारी लेकर या अन्यथा अथवा ऐसे किन्हीं साधनों द्वारा इस बाबत सम्यक उपबंध किया जाएगा कि फैक्ट्री परिसर में अग्नि, दियासलाई अथवा ऐसी कोई वस्तुएं या पदार्थ, जिससे विस्फोट हो सकता है या आग लग सकती हो, किन्तु इस शर्त के कारण ऐसी संरचना, स्थिति या स्वरूप में किसी कृत्रिम बत्ती का प्रवेश वर्जित नहीं है जिससे आग लगने या विस्फोट होने का खतरा न हो : परंतु इस शर्त का वह भाग, जो लोहे या द्रुमगत के अपवर्जन को लागू होता है, ऐसे किसी भवन के संबंध में बाध्य कर नहीं होगा जिससे भिन्न कोई विस्फोटक नहीं रखा गया है।
Due provisions shall be made, by the use of suitable working clothes without pockets, suitable shoes and by searching or otherwise or by such means, for preventing the introduction into danger area of the factory premises of fire, Lucifer matches or any substance or article likely to cause explosion or fire, but this condition shall not prevent the introduction of an artificial light of such construction, position or character as not to cause any danger of fire or explosion.
Provided that so much of this condition as applies to the exclusion of iron or steel, shall not be obligatory in a building in which no explosive other than an explosive of the 1st Division of the 6th (Ammunition) Class is kept.
11. अनुज्ञापिधारी प्ररूप आर ई-3 और आर ई-4 या आर ई-5, जैसी स्थिति हो, में सभी विस्फोटकों का अभिलेख और लेखा रखेगा और विस्फोटक नियम, 2008 के अधीन प्राधिकृत किसी भी अधिकारी के समक्ष उसके द्वारा ऐसा करने की मांग की जाने पर स्टॉक पुस्तक और अभिलेख प्रस्तुत करेगा। स्टॉक पुस्तक विहित प्रोफार्म में पृष्ठ संख्यांकित होगी।
The licensee shall keep records and accounts of all explosives in Forms RE-3 and RE-4 or RE-5, as the case may be, and exhibit the stock books and records to any of the officers authorised under the Explosives Rules, 2008 whenever such officer may call upon him to do so. The stock books in the prescribed proforma shall be page numbered.
12. परिसरों में कोई परिवर्तन या तबदीली अनुज्ञापन प्राधिकारी के पूर्वानुमोदन बिना नहीं की जाएगी और अनुज्ञापिधारी ऐसी किसी शर्त का अनुपालन करेगा जो इस निमित्त अनुज्ञापन प्राधिकारी विनिर्दिष्ट करे।
No changes or alterations shall be carried out to the premises without prior approval of the licensing authority and the licensee shall comply with any condition that may be specified by the licensing authority in this behalf.
13. मैगजीन सभी समयों पर अच्छी मरम्मत की स्थिति में बनाई रखी जाएगी (या अच्छी हालत में बनाई रखी जाएगी) यदि किसी कारणवश किसी विस्फोटक के भण्डारण के लिए मैगजीन अनुपयुक्त हो जाती है तो अनुज्ञापिधारी इस बात की सूचना अनुज्ञापन प्राधिकारी को तुरंत देगा।
Magazine shall at all times be kept in state of good repair (or maintained in good condition). The licensee shall report to licensing authority forthwith, if the magazine becomes unfit for storage of any explosives for any reason whatsoever.
मैगजीन का अनुज्ञापिधारी इन नियमों के नियम 24 के उप-नियम 3 के अनुसार त्रैमासिक विवरणी प्रस्तुत करेगा।
The licensee of the magazine shall submit quarterly return as per sub-rules (3) and (4) of rule 24 of these rules.
14. यदि सुरक्षा दूरी का कोई अधिक्रमण होता है तो उसकी सूचना अनुज्ञापन प्राधिकारी को आवश्यक सलाह और कार्यवाही के लिए तुरंत दी जाएगी।
Any encroachment of the safety distance shall be immediately communicated to the licensing authority for necessary advice and action.
15. यदि कोई विस्फोटक विनष्ट हुआ अथवा अनुपयोगी जाया जाता है तो उसकी सूचना अनुज्ञापन प्राधिकारी को, सलाह प्राप्त करने के लिए, तुरंत दी जाएगी।
The licensing authority shall be immediately informed for advice if any explosive is found deteriorated or unserviceable.
16. विस्फोटकों के पैकेटों के चट्टे इस प्रकार लगाए जाएंगे कि कम से कम एक व्यक्ति भण्डार किए गए सभी पैकेटों की हालत की जांच करने और प्रत्येक पैकेज की विनिर्माण विशिष्टियों को पढ़ने के लिए उनके बीच से होकर आ जा सके।
The explosive packages shall be stocked in such a way so as to allow movement of at least one person to check the condition of all packages stored and to read the manufacture particulars of each package.
तड़ित चालकों की भूमि के लिए प्रतिरोध यथासंभव न्यूनतम होगा और किसी भी दशा में 10 ओह्म से अधिक नहीं होगा।
The resistance of the lightning conductor to earth shall be as low as possible and in no case be more than 10 ohms.
17. मैगजीन के चारों ओर 15 मीटर की दूरी के अंतर्गत कोई शुल्क घास या झाड़ी या ज्वलनशील सामग्री नहीं रहने दी जाएगी।

उप मुख्य विस्फोटक नियंत्रक
Deputy Chief Controller of Explosives
एरनाकुलम Ernakulam

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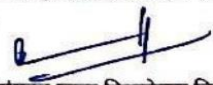


A distance of 15 meters surrounding the magazine or store house shall be kept clear of dried grass or bush or flammable materials.

18. विस्फोटकों के प्रत्येक पैकेट की, जब उसे मैगजीन के भीतर लिया जा रहा हो, ठीक दशा जानने के लिए परीक्षा की जाएगी।
Every package of explosive at the time of bringing inside the magazine shall be examined for its sound condition.
19. किसी मैगजीन / भंडारगृह में किसी एक समय में चार व्यक्तियों से अधिक को नहीं रहने दिया जाएगा।
Not more than 4 persons shall be allowed inside the magazine or store house at any one time.
20. विस्फोटकों के खाली पैकेजों को शीघ्रतिथीघ्न वहां से हटा दिया जाएगा और नष्ट कर दिया जाएगा।
Empty packages of the explosives shall be removed at the earliest and destroyed.
21. अनुज्ञापिधारी और कर्मचारी को परिसर के भीतर आपातकाल के दौरान की जाने वाली प्रक्रियाओं से अवगत होना चाहिए।
The licensee and the employee shall be conversant with procedure to be taken during the emergency within the premises.
22. निरीक्षण या नमूना अधिकारी को सभी युक्तियुक्त समयों पर अनुज्ञत परिसर में अबाध रूप से पहुंचने दिया जाएगा और यह सुनिश्चित करने के लिए कि अधिनियम और इन नियमों के उपबंधों और सुरक्षा स्थितियों को सम्यक्तः अनुपालन किया जा रहा है, अधिकारी को प्रत्येक सुविधा प्रदान की जाएगी।
Free access to the licensed premises shall be given at all reasonable times to any inspecting or sampling officer and every facility shall be afforded to the officer for ascertaining that the provisions of the Act and these rules and the safety conditions are duly observed.
23. यदि अनुज्ञापन प्राधिकारी या विस्फोटक नियंत्रक अनुज्ञापिधारक को अनुज्ञत परिसरों या मशीनरी, टूल या उपकरण में ऐसी कोई मरम्मत या परिवर्धन या परिवर्तन करने या सिफारिशों को लागू करने को लिखित रूप में सूचित करता है जो परिसर के अंदर या बाहर या व्यक्तियों की सुरक्षा के लिए आवश्यक है, अनुज्ञापिधारक सिफारिशों को निष्पादित करेगा और विनिर्दिष्ट अवधि के भीतर अनुपालन रिपोर्ट ऐसे प्राधिकारी को देगा।
If the licensing authority or a Controller of Explosives informs in writing, the holder of the licence to execute any repairs or to make any additions or alterations to the licensed premises or machinery, tools or apparatus or carry out recommendations, which are in the opinion of such authority may pose unacceptable risk and so necessary for the safety of either on-site or off-site of the premises or persons, the holder of the licence shall execute the recommendations and report compliance within the period specified by such authority.
24. अनुज्ञापिधारी मैगजीन में रखने और बिक्री के लिए प्राधिकृत विस्फोटक सूची में उल्लिखित अनुज्ञत फैक्टरी या कंपनी से प्राधिकृत विस्फोटक / आतिशबाजी या सुरक्षा पत्ती खरीदेगा।
The licensee shall purchase authorised explosives/ fireworks or safety fuse as mentioned in the list authorised explosives from a licensed factory or company for possession and sale from the magazine.
25. निम्न से अधिक ध्वनि स्तर उत्पादित करने वाले आतिशबाजियों पटाखों की बिक्री और रखने के लिए –
(क) जो फटने की जगह से चार मीटर की दूरी पर है, 125 डी.बी.(ए1) या 145 डी.बी.(सी)पी.के. प्रतिबंधित होंगे;
(ख) श्रृंखला (जुड़े हुए पटाख) को गठन करने वाले व्यक्तिगत पटाखों के लिए उपर्युक्त उल्लिखित सीमा 5 लॉग.10(एन) डी.बी. (सी) पी.के. प्रतिबंधित होंगे;
The possession and sale of fire-crackers generating noise level exceeding;
a) 125 dB(AI) or 145 dB(C)pk at 4 meters distance from the point of bursting shall be prohibited;
b) For individual fire-cracker constituting the series (joined fire-crackers), the above mentioned limit be reduced by 5 log10 (N) dB, where N = number of crackers joined together.
26. आग या विस्फोट वद्वारा दुर्घटना या नुकसान पटाखों की कमी या चोरी, तुरंत पास के पुलिस थाने और अनुज्ञापन प्राधिकारी और अनुज्ञापन प्राधिकारी के स्थानीय कार्यालय को रिपोर्ट की जाएगी।
Accidents by fire or explosion and losses, shortage or theft of explosives shall be immediately reported to the nearest police station and the licensing authority and local office of the licensing authority.

अतिरिक्त शर्तें / Additional Conditions :

1. अनुज्ञापिधारी विदेशी मूल के आतिशबाजी को ना प्रदर्शित करेगा, ना रखेगा और ना ही उसकी बिक्री करेगा।
The licensee shall not exhibit, possess and sell fireworks of foreign origin.


कृते संयुक्त मुख्य विस्फोटक नियंत्रक
For Joint Chief Controller of Explosives
दक्षिणचल, चेन्नै, South Circle, Chennai
उप मुख्य विस्फोटक नियंत्रक
Deputy Chief Controller of Explosives
एरनाकुलम Ernakulam

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Form DE-2
(See rule 113 of the Explosives Rules, 2008)
(Distance Form to be attached to the licence)

Safety distances required to be kept clear around magazine for high explosives or fire works or factory licence number E/SC/KL/22/1098(E55834) in form LE-3 granted to Shri.GEORGE JOSEPH, Director, PPK Granites & Crusher Products(P)Ltd, Poonattil House, Ayavana P.O, Enanallur, Moovattupuzha, Kerala-679511 .

Type of Structure(s)		Safety distances meters	
Inside Safety Distances(ISD)		M	UM
1	Room or Workshop used in Connection with the Magazine	11	17
2	Any other Explosives Magazine or store House or Factory of the Applicant		
3	Magazine Office		
Middle Safety Distances(MSD)			
4	Magazine Keeper's or Chowkidar's Dwelling house		
5	Railway including Minerals and Private Railways		
6	Canal (in active use) or other navigable water		
7	Dock or Pier or Jetty		
8	Public Highway or Public Road		33
9	Private Road which is PRINCIPAL means of access to a Temple, Mosque, Church, Gurudwara or other places of worships, Hospital, College, School or Factory		
10	River Embankment or Sea Embankment or Public Well		
11	Reservoir or Bounded tank/rope way		
12	Windmillor or Solar panel for Power Generation		
Outside Safety Distances(OSD)			
13	Dwelling House		
14	Govt. and Public Building		
15	Temple, Mosque, Church or Gurudwara or other Places of Worships		
16	Shops, Market place, Public recreation and Sports Ground, College, School, Hospital, Theater, Cinema or other Building where the public are accustomed to assemble		
17	Factory		
18	Buildings or Works used for the Storage in Bulk of Petroleum, Sprit, gas, or other inflammable or hazardous substances		45
19	Building or Works used for Storage and Manufacture of Explosives or of articles which contain Explosives		
20	Aerodrome		
21	Furnace, Kiln or Chimney		
22	Quarry or mine pit head		
23	Power House or Electric Substation		
24	Wireless Station		
25	Warehouse or other Storage Building		
26	Any other Protected works		
Overhead Electric lines			
27	Electric Power over head Transmission Lines above 440V		45
28	Electric Power over head Transmission Lines upto 440V		15

The Date : 01/10/2010

For Joint Chief Controller of Explosives
South Circle, Chennai

उप मुख्य विस्फोटक नियंत्रक
Deputy Chief Controller of Explosives
Ernakulam

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

Transfers :

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

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ANNEXURE 6

POLLUTION CERTIFICATE



KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/PLKD/ICO/R17PAL4959489/2020
Date of issue :28/03/2020

INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No : PCB/PLKD/ICO/R1/12718907/2020

Ref : (i) Consent No:PCB/PLKD/ICO/F/216/2017 dated 26/04/2017 valid up to 31/03/2020 As per File no:PCB/PLKD/IC-2194959563/2017

(ii) Consent Variation Order number PCB/PLKD/ICO/F/12530512/2020 dated 3-2-2020 in File no. PCB/PLKD/ICO/R17PAL4959489/2020

The 'Integrated Consent to Operate' issued as per reference above to M/s P P K GRANITE & CRUSHER PRODUCTS PVT. LTD. QUARRY CHUNANGAD POST, AMBALAPARA OTTAPALAM, PALAKKAD - 679511 is hereby renewed up to 31/03/2022 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	Annual Fee	22000/-
2	Validity	31/03/2022
3	Capital Investment	85.00 Rs in Lakhs
4	Category	Red
5	Renewal Date	31/01/2022
6	Fee remitted	85116/- (24199/- is excess, to be adjusted in next application)

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

1. Quarrying shall be done in the area as per the Approved site location plan modified and attached

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

DATE :28/03/2020

KRISHNAN M N

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Date: 2020.03.28 12:21:23 +05'30'

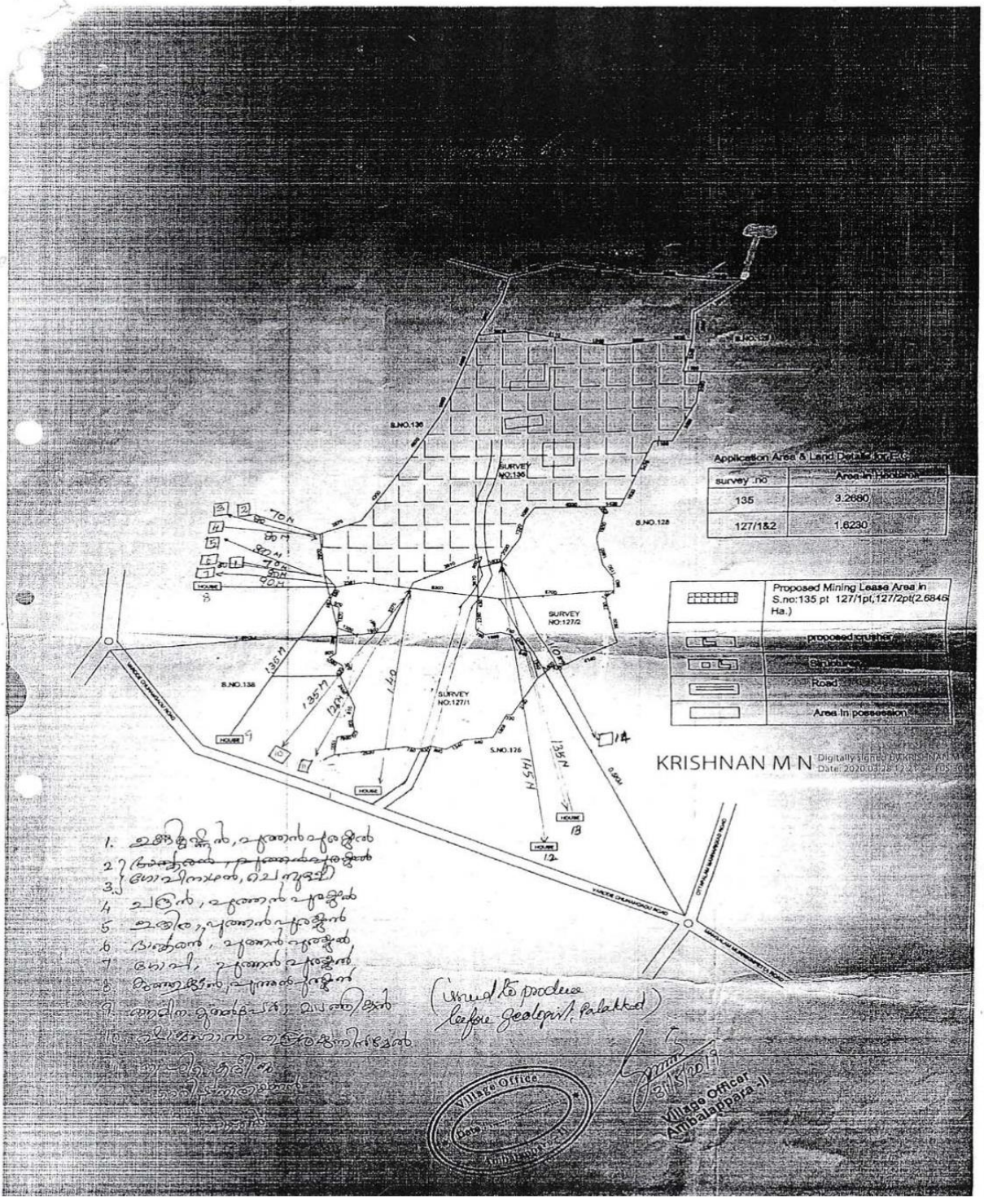
SIGNATURE & SEAL OF ISSUING AUTHORITY
ENVIRONMENTAL ENGINEER



To

GEORGE JOSEPH S/o JOSEPH POONATTIL HOUSE AYAVANA POST, ENANALLUR,
MOOVATTUPUZHA, ERNAKULAM
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 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.



1. ഉദ്യോഗസ്ഥൻ, പട്ടണത്തിൽ
2. ഭരണാധികാരി, പട്ടണത്തിൽ
3. ഭരണാധികാരി, പട്ടണത്തിൽ
4. പട്ടണത്തിൽ, പട്ടണത്തിൽ
5. പട്ടണത്തിൽ, പട്ടണത്തിൽ
6. പട്ടണത്തിൽ, പട്ടണത്തിൽ
7. പട്ടണത്തിൽ, പട്ടണത്തിൽ
8. പട്ടണത്തിൽ, പട്ടണത്തിൽ
9. പട്ടണത്തിൽ, പട്ടണത്തിൽ
10. പട്ടണത്തിൽ, പട്ടണത്തിൽ

(Signed to produce before Geologist, Palakkad)



Village Officer
Ambalappara-II



KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/PLKD/ICO/R17PAL4959489/2020

Date of issue :2020-02-03

CONSENT VARIATION ORDER

Consent No : PCB/PLKD/ICO/F/12530512/2020

Ref : Consent no :PCB/PLKD/ICO/F/216/2017 dated 26/04/2017 valid up to 31/03/2020 As per File no:PCB/PLKD/ICO-219/4959563/2017

The ' Integrated Consent to Operate' issued as per reference above to M/s P P K GRANITE & CRUSHER PRODUCTS PVT. LTD. QUARRY,CHUNANGAD POST, AMBALAPARA OTTAPALAM, PALAKKAD - 679511 is hereby modified & 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 consent variation order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

I. GENERAL

S.No.	Items	Description
-------	-------	-------------

II. CONDITIONS

Condition 5.5 is modified as follows.

5.5 It is the responsibility of occupier to ensure that quarrying activities are restricted to the area shown in the attached draawing only and is at a distance equal to or more than 50 m from the nearby residences, places of worship, public buildings, river or lake, railway line, bridges and public roads having vehicular traffic.

Condition no. 5.7 is deleted

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: 2020.02.03 13:55:49 +05'30'

DATE :03/02/2020

SIGNATURE & SEAL OF ISSUING AUTHORITY

ENVIRONMENTAL ENGINEER



To
GEORGE JOSEPH S/o. JOSEPH POONATTIL HOUSE AYAVANA POST, ENANALLUR,
MOOVATTUPUZHA, ERNAKULAM

- 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 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.

1. GENERAL

1.1. This integrated consent is granted subject to the power of the Board to withdraw consent, review and make variation in or revoke all or any of the conditions as the Board deems fit.

1	VALIDITY	31/03/2020
2	Name and Address of the establishment	P P K GRANITE & CRUSHER PRODUCTS PVT. LTD. QUARRY CHUNANGAD POST, AMBALAPARA OTTAPALAM, PALAKKAD - 679511 679511
3	Communication	Telephone :0-8086925000 Fax :0-0 E-mail:ppkgranites@gmail.com
4	Occupier Details	GEORGE JOSEPH S/o.JOSEPH POONATTIL HOUSE AYAVANA POST, ENANALLUR, MOOVATTUPUZHA, ERNAKULAM
5	Local Body	AMBALAPPARA GRAMA PANCHAYAT
6	Survey Number	135
7	Village	AMBALAPPARA II
8	Taluk	OTTAPALAM
9	District	PALAKKAD
10	Capital Investment(Rs in Lakhs)	85
11	Scale	Small
12	Category	RED
13	Annual fee(Rs)	15,000/-
	Total Fee remitted(Rs)	97,500/-
14	RAW MATERIAL	PRODUCTS
	GRANITE BUILDING STONE @200 Metric Tonnes	GRANITE BUILDING STONE @200 Metric Tonnes
15	Total Power Required (HP)	

2. CONDITIONS AS PER

The Water(Prevention and Control of Pollution)Act, 1974

- 2.1 In case of generation of trade effluent from the industry, effluent treatment system consisting of treatment units having adequate capacity established as per the Integrated Consent to Establish issued shall be operational at all times during which the industry is functional. Additional facilities required, if any, to achieve the standards laid down by the Board u/s 17(1) (g) of the Water Act shall also be made along with.
- 2.2 Water consumption: 6000l/d
- 2.3 Effluent generation:
- 2.4 The characteristics of effluent after treatment shall confirm to the following tolerance limits:



Sl.NO.	Characteristics	Unit	Tolerance Limit	
			Sewage	Trade Effluent

2.5 Mode of disposal of treated effluent:

3. CONDITIONS AS PER

The Air(Prevention and Control of Pollution)Act, 1981

3.1 Adequate air pollution control measures shall be operational at all times during the functioning of the industry. Additional facilities required, if any, to achieve the standards laid down by the Board shall also be made along with.

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

3.2 Emission characteristics shall not exceed the following:

Sl.No.	Parameter	Limiting Standards (mg/Nm3)
--------	-----------	-----------------------------

4. CONDITIONS AS PER

The Environment (Protection) Act, 1986.

4.1 The operation of the industry shall be strictly in compliance with the provisions of the Noise Pollution (Regulation and Control) Rules 2000.

4.2 Used lead acid batteries shall be disposed of as per the Batteries (Management and Handling) Rules, 2001

4.3 Hazardous waste generated, if any, shall be handled as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

4.3.1 Activities for which Authorisation is granted

Collection		transport	
Reception		Storage	
Treatment		Reprocessing/Disposal	

4.3.2 Type, quantity and mode of storage/collection/disposal of hazardous wastes shall be as follows:

Sl.No.	Hazardous Waste	Schedule Category	Quantity Tonne/year
--------	-----------------	-------------------	---------------------

Mode of	
Storage	Disposal

4.4 E-waste shall be disposed off safely as per the E-Waste (Management)Rules, 2016.



5. SPECIFIC CONDITIONS

5.1. The location of the industry/out let shall be as per the approved drawing attached.

5.2. This consent unless withdrawn earlier shall be valid up to 31/03/2020. If the operation of the quarry is to be continued after 31/03/2020 fresh application has to be submitted through online site krocmms.nic.in along with valid lease/permit from Department of Mining & Geology, 3 months in advance.

5.3. After excavation at the site is completed, the land may be reclaimed or used for rain water harvesting with protective barriers/any other suitable purpose like aquaculture approved by the authority.

5.4 The consent issued is subject to the conditions specified in the clearances issued by the Mining and Geology Department and Explosive Department as per the provisions of the relevant statutes.

5.5 It is the responsibility of occupier to ensure that quarrying activities are restricted to only area shown in the attached drawing and at a distance more than 100 m from the nearby residences and public roads having vehicular traffic .

5.6 All the control measures provided should be maintained properly to ensure that the system is adequate to control the pollution caused.

5.7 A minimum distance of 100m shall be maintained from the boundary of quarry operation area to existing residential buildings, places of worship, public buildings, public road having vehicular traffic, river or lake, railway line and bridges.

5.8 Boundary of quarrying area shall be fenced and demarcated.

5.9 Fugitive emission from the quarry premises shall be suppressed using water sprinkling.

5.10 The suspended particulate matter (SPM) at boundary of the premises of the quarry shall not exceed the limit applicable to that area as per the National Ambient Air Quality Standards.

- a) The PM10 in ambient air at the boundary shall not exceed 100 µg/m³
- b) The PM2.5 in ambient air at the boundary shall not exceed 60 µg/m³.

5.11 Regular wetting of the roads in the premises of the quarry and approach roads near the quarry shall be done for avoiding dust emission within and outside the boundary of the unit.

5.12 It is the responsibility of occupier to ensure that quarrying activities are restricted to only area shown in the attached drawing and at a distance more than 100 m from the nearby residences and public roads having vehicular traffic .

5.13 The sound level measured at 1.0m outside the boundary shall not exceed the limit as per the Ambient Air Quality Standards in respect of Noise.



5.14 The validity of this consent may change subjected to the order of the Honorable Supreme Court/High Court / NGT in related cases. or the new orders issued by the government or other competent authority.

5.15 The consent issued from the Board will be valid only during the period when statutory or necessary clearances from other concerned authorities are valid. The consent issued from the Board is only with respect to the powers vested under the Water Act, 1974, Air Act, 1981 and Rules there under. The operation of the unit shall be commenced only after obtaining clearances from all concerned authorities.

5.16 Quarrying operations shall be started only after obtaining the D & O license under the Kerala Panchayath Raj Act from the concerned Local Self Government Institution and submitting a copy of the same to the District Office of the Board.

5.17 The quarry should not be operated between 6.00 p.m. and 6.00 a.m. Products shall be transported with proper cover and/or after wetting to prevent spreading of dust.

5.18 Quarrying area shall be restricted in the area shown in the drawing attached.

5.19 Provisions for rain water harvesting shall be provided for collecting and storing sufficient water for meeting the total water requirement of the unit.

5.20 This consent may be granted on the basis of affidavit and other documents furnished by the applicant. Any of the statement or information found to be false, the consent issued will withdrawn or cancelled.

DATE :26/04/2017

SIGNATURE & SEAL OF ISSUING AUTHORITY

OFFICE SEAL



To

George Joseph,
S/O.Joseph,Poonattil House Ayavana Post,
Enanallur,Moovattupuzha,Ernakulam



ANNEXURE 7

LAB REPORTS

AIR



TEST REPORT

ULRN: TC540221000002627F	Date: 17-04-2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	Mr. George Joseph (Managing Director) M/s PPK Granites Ottapalam, Palakkad District
Customer Reference	Test Request dt: 11-04-2021

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN21040222
Sample Name	Ambient Air (Quarry Unit Not Working)	Sample Received on	15-04-2021
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	15-04-2021
Sampled by	Lab Authorized Sampler	Test Completed on	17-04-2021

DETAILS OF SAMPLING			
Sampling Location	Project Site	Date of Sampling	11-04-2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	68%

SAMPLING SITE DETAILS			
Re - Survey No	135		
Village	Ambalappara-2	Taluk	Ottapalam
District	Palakkad	State	Kerala

TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ Standards
1	Particulate Matter, PM ₁₀	IS 5182 (Part 23):2006	µg/m ³	38.1	Max 100
2	Particulate Matter, PM _{2.5}	EPA 40 CFR (Part 50) Appendix - L	µg/m ³	16.9	Max 60
3	Sulphur Dioxide as SO ₂	IS 5182 (Part 2): 2001 RA 2017	µg/m ³	<2.00	Max 80
4	Oxides of Nitrogen as NO ₂	IS 5182 (Part 6): 2006 RA 2017	µg/m ³	<2.00	Max 80

Remarks:

End of Report

Shency Joy
Dx TM Chemical

Checked by:



Laiju P. N.
Laboratory Head
Authorized Signatory

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Standard^S Environmental & Analytical Laboratories

Accreditation & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017
vide Certificate No. TC - 5402 & "A" Grade Laboratory approved by KSPCB.

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Web: www.sealabs.in, E-mail: seaalab@gmail.com

TEST REPORT

ULRNo: TC540221000002629F	Date: 17-04-2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	Mr. George Joseph (Managing Director) M/s PPK Granites Ottapalam, Palakkad District
Customer Reference	Test Request dt: 12-04-2021

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN21040224
Sample Name	Ambient Air (Quarry Unit Working)	Sample Received on	15-04-2021
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	15-04-2021
Sampled by	Lab Authorized Sampler	Test Completed on	17-04-2021

DETAILS OF SAMPLING			
Sampling Location	Project Site	Date of Sampling	12-04-2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	68%

SAMPLING SITE DETAILS			
Re - Survey No	135		
Village	Ambalappara-2	Taluk	Ottapalam
District	Palakkad	State	Kerala

TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ Standards
1	Particulate Matter, PM ₁₀	IS 5182 (Part 23):2006	µg/m ³	76.9	Max 100
2	Particulate Matter, PM _{2.5}	EPA 40 CFR (Part 50) Appendix - L	µg/m ³	41.2	Max 60
3	Sulphur Dioxide as SO ₂	IS 5182 (Part 2): 2001 RA 2017	µg/m ³	<2.00	Max 80
4	Oxides of Nitrogen as NO ₂	IS 5182 (Part 6): 2006 RA 2017	µg/m ³	<2.00	Max 80

Remarks:

End of Report

Shency Joy
Dy. TM Chemical

Checked by:



Laiju P. N.
Laboratory Head
Authorized Signatory

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NOISE



TEST REPORT



ULR No:TC540221000002628F	Date: 17-04-2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	Mr. George Joseph (Managing Director) M/s PPK Granites Ottapalam, Palakkad District
Customer Reference	Test Request dt: 11-04-2021

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	EN21040223
Sample Name	Ambient Noise (Quarry Unit Not Working)	Monitoring Commenced on	11-04-2021/06:00
Monitoring Location	Project Site	Monitoring Completed on	12-04-2021/06:00
Test Method	IS 9989:1981 RA:2008	Monitored by	Lab Authorized Sampler

SAMPLING SITE DETAILS			
Re - Survey No	135		
Village	Ambalappara-2	Taluk	Ottapalam
District	Palakkad	State	Kerala

MONITORING RESULTS - Leq					
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	34.2	14:00	45.9	22:00	33.2
07:00	36.7	15:00	46.2	23:00	32.8
08:00	40.6	16:00	47.3	24:00	35.2
09:00	43.8	17:00	47.7	01:00	35.8
10:00	45.9	18:00	42.7	02:00	35.5
11:00	48.7	19:00	39.5	03:00	36.2
12:00	46.2	20:00	36.0	04:00	35.2
13:00	45.5	21:00	35.6	05:00	36.8

Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	44.4
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	35.5

Remarks:

Shency Joy
Dy. TM Chemical

Checked by:

End of Report

Laiju P. N.
Laboratory Head
Authorized Signatory

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TEST REPORT

ULR No:TC540221000002630F	Date: 17.04.2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	Mr. George Joseph (Managing Director) M/s PPK Granites Ottapalam, Palakkad District
Customer Reference	Test Request dt: 12.04.2021

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	EN21040225
Sample Name	Ambient Noise (Quarry Unit Working)	Monitoring Commenced on	12-04-2021/06:00
Monitoring Location	Project Site	Monitoring Completed on	13-04-2021/06:00
Test Method	IS 9989:1981 RA:2008	Monitored by	Lab Authorized Sampler

SAMPLING SITE DETAILS			
Re - Survey No	135		
Village	Ambalappara-2	Taluk	Ottapalam
District	Palakkad	State	Kerala

MONITORING RESULTS - Leq					
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	37.3	14:00	50.1	22:00	36.2
07:00	40.0	15:00	50.4	23:00	34.0
08:00	44.3	16:00	51.6	24:00	36.5
09:00	47.7	17:00	52.0	01:00	37.2
10:00	50.1	18:00	46.6	02:00	36.9
11:00	53.1	19:00	43.1	03:00	37.6
12:00	50.4	20:00	39.3	04:00	36.5
13:00	49.7	21:00	38.8	05:00	38.3

Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	48.5
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	36.8

Remarks:

End of Report

Shency Joy
Dy. TM Chemical

Laiju P. N.
Laboratory Head

Checked by:

Authorized Signatory

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SOIL



TEST REPORT

ULR No:TC540221000002631F	Date: 17-04-2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	Mr. George Joseph (Managing Director) M/s PPK Granites Ottapalam, Palakkad District
Customer Reference	Test Request dt: 12-04-2021

SAMPLE DETAILS			
Product Category	Pollution&Environment	Sample Code	EN21040226
Sample Name	Soil	Sample Received on	15-04-2021
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	30 °C
Sample Quantity& Packing	500g & Plastic Bag	Test Commenced on	15-04-2021
Sampled by	Lab Authorized Sampler	Test Completed on	17-04-2021
Information Provided by Customer	---		

DETAILS OF SAMPLING			
Sample Source	Project site	Date of Sampling	12-04-2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/08	Sample Temperature	31 °C

SAMPLING SITE DETAILS			
Re - Survey No	135		
Village	Ambalappara-2	Taluk	Ottapalam
District	Palakkad	State	Kerala

TEST RESULTS- CHEMICAL PARAMETERS				
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT
1	pH	IS 10158: 1982 RA 2014	---	6.43
2	Electrical Conductivity	IS 14767: 2000 RA 2016	μS/cm	85.1
3	Water Holding Capacity	SEAL/EN/SLS/SOP/01	%	62.9
4	Particle Size Distribution - Clay	Sieve Analysis	%	33.8
5	Particle Size Distribution - Sand	Sieve Analysis	%	26.9
6	Particle Size Distribution - Silt	Sieve Analysis	%	39.3

Shency Joy
Dy. TM Chemical

Laiju P. N.
Laboratory Head

Checked by:

Authorized Signatory

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TEST REPORT

ULR No:TC540221000002631F

Date: 17-04-2021

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7	Organic Matter	IS 2720 Part 22:1992	%	0.21
8	Sodium as Na	EPA 3050 B	%	0.182
9	Chlorides	SEAAL/EN/SLS/SOP/01	%	0.06
10	Sulphate	IS 2720 Part 27: 1977	%	0.05
11	Total Kjeldahl Nitrogen (as N)	IS 14684 :1999 RA 2014	%	0.19
12	Available Potassium	SEAAL/EN/SLS/SOP/02	%	0.11
13	Total Phosphorous (as P)	IS 10158: 1982 RA 2014	%	0.08

Remarks:

End of Report


Shency Joy
Dy. TM Chemical

Checked by:


Laiju P. N.
Laboratory Head

Authorized Signatory

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BORE WELL



TEST REPORT



ULR No: TC540221000002632F	Date: 17-04-2021	Page 1 of 2
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CUSTOMER DETAILS	
Customer Name & Address	Mr. George Joseph (Managing Director) M/s PPK Granites Ottapalam, Palakkad District
Customer Reference	Test Request dt: 12-04-2021

SAMPLE DETAILS			
Product Category	Water	Sample Code	WT21040023
Sample Name	Bore Well	Sample Received on	15-04-2021
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	4 °C
Sample Quantity& Packing	2 litre& Plastic Bottle	Test Commenced on	15-04-2021
Sampled by	Lab Authorized Sampler	Test Completed on	17-04-2021
Information Provided by Customer	---		

DETAILS OF SAMPLING			
Sample Source	Bore Well	Date of Sampling	12-04-2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/01& SEAAL/MBL/SOP/06	Sample Temperature	30 °C

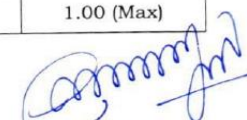
SAMPLING SITE DETAILS			
Re - Survey No	135		
Village	Ambalappara-2	Taluk	Ottapalam
District	Palakkad	State	Kerala

TEST RESULTS - CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	ACCEPTABLE LIMIT (IS 10500-2012)
1	Colour	IS 3025 Part 4:1983 RA 2017	Hazen	1.00	5.00 (Max)
2	Odour	IS 3025 Part 5:2018	---	Agreeable	Agreeable
3	Turbidity	IS 3025 Part 10:1984 RA 2017	NTU	<0.10	1.00 (Max)


Shency Joy
Dy. TM Chemical


Salini T. S.
Microbiologist




Laiju P. N.
Laboratory Head

Checked by:

Authorized Signatory

Authorized Signatory

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TEST REPORT

ULR No: TC540221000002632F	Date: 17-04-2021	Page 2 of 2
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4	pH	IS 3025 Part 11:1983 RA 2017	---	6.73	6.50 – 8.50
5	Conductivity	IS 3025 Part 14:1984 RA 2019	μS/cm	398	---
6	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2017	mg/L	258	500 (Max)
7	Total Hardness (as CaCO ₃)	IS 3025 Part 21:2009 RA 2019	mg/L	141	200 (Max)
8	Calcium (as Ca)	IS 3025 Part 40:1991 RA 2019	mg/L	33.9	75.0 (Max)
9	Magnesium (as Mg)	IS 3025 Part 46:1994 RA 2019	mg/L	13.7	30.0 (Max)
10	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2019	mg/L	14.7	250 (Max)
11	Total Alkalinity (as CaCO ₃)	IS 3025 Part 23:1986 RA 2019	mg/L	115	200 (Max)
12	Iron (as Fe)	IS 3025 Part 53:2003 RA 2019	mg/L	<0.10	1.00 (Max)
13	Sulphate (SO ₄)	IS 3025 Part 24:1986 RA 2019	mg/L	23.9	200 (Max)

TEST RESULTS - BIOLOGICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	ACCEPTABLE LIMIT (IS 10500-2012)
1	Total Coliform Bacteria	IS 15185 : 2016	----	Absent/100 ml	Absent/100 ml
2	E coli	IS 15185 : 2016	----	Absent/100 ml	Absent/100 ml

Remarks:
End of Report


Shency Joy
Dy. TM Chemical


Salini T. S.
Microbiologist


Laiju P. N.
Laboratory Head

Checked by:

Authorized Signatory

Authorized Signatory

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Web: www.sealabs.in, E-mail: seaalab@gmail.com

ANNEXURE 8

Staff certificate

Cert No. BR/s2/0263

भारत सरकार/Government of India

खान अधिनियम, 1952/Mines Act, 1952

खनन परीक्षा बोर्ड/Board of Mining Examinations

विस्फोटकर्ता सक्षमता प्रमाण-पत्र

BLASTER'S CERTIFICATE OF COMPETENCY

(केवल ओपनकास्ट खानों तक सीमित)

(Restricted to mines having opencast workings only)

(धात्विकीय खान विनियम, 1961 के अन्तर्गत)

(Under the Metalliferous Mines Regulations, 1961)

श्री अब्दुल मजीद पी पी

सुपुत्र पी पी मोहम्मद

जिनकी जन्म तिथि 18.04.1970 है, को अपनी आयु, स्वस्थता, सदाचार, साक्षरता और धात्विकीय खानों में काम करने के विहित अनुभव का सन्तोषजनक प्रमाण प्रस्तुत करने एवं दिनांक 08.06.2019 को जीभीटीसी, त्रिची केन्द्र पर आयोजित विहित परीक्षा में उत्तीर्ण होने पर एतद्वारा केवल ओपनकास्ट खानों तक सीमित विस्फोटकर्ता सक्षमता प्रमाण-पत्र प्रदान किया जाता है।

श्री ABDUL MAJEED P P

son of P P MOHAMED

born on 18.04.1970

having given satisfactory evidence of his age, medical fitness, good character, literacy and prescribed experience of working in metalliferous mines and having passed the prescribed examination held at GVTC, TRICHY

is hereby granted BLASTER'S CERTIFICATE OF COMPETENCY restricted to mines having opencast workings only.

बाएं हाथ के अंगूठे का निशान

Left hand thumb impression

अंचल सचिव

खनन परीक्षा बोर्ड

Zonal Secretary

Board of Mining Examinations

Signed and Sealed

Date 28/11/2019

अध्यक्ष

खनन परीक्षा बोर्ड

Chairman

Board of Mining Examinations

ABDUL MAJEED P.P

MANAGER

MMA GRANITE MIN

V.PLATE

PLATE 1

Photographs showing fencing in the project area



PLATE 2

Photograph showing top soil and overburden in the project site



PLATE 3

Photograph showing desiltation Pond in the project area



PLATE 4

Photograph showing access road to the project area



PLATE 5

Photographs showing natural vegetation in the approach sides of roads



PLATE 6

Photograph showing details of boundary indicators (sign boards, markings, timing details)



PLATE 7

Photograph showing bench development / Mining face development



PLATE 8

Photograph showing staff with safety / protective equipment



PLATE 9

Photograph showing covered truck with rock materials



PLATE 10

Photograph showing working time of quarry



PLATE 11

Photograph showing Explosive magazine



PLATE 12

Photograph showing details of the environmental clearance prominently displayed in a metallic board



PLATE 13

Photograph showing blasting time of quarry



PLATE 14

Photograph showing blasting time warning alarm



PLATE 15

Photograph showing rain water harvesting



PLATE 16

Photograph showing the first aid box



PLATE 17

Photograph showing the Garland drains

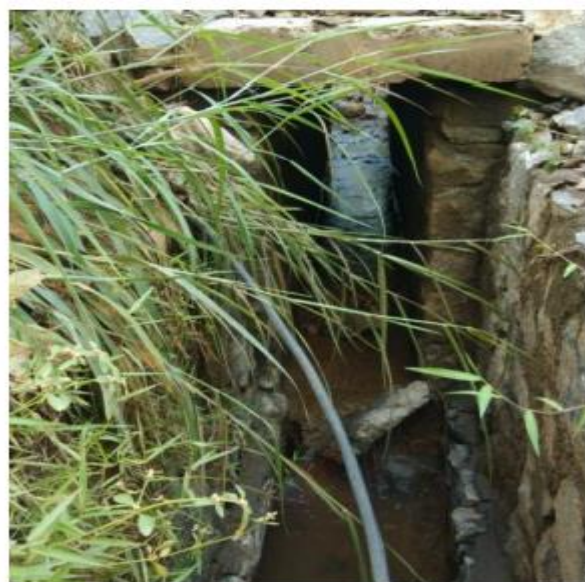


PLATE 18

Photograph showing the Sprinklers

