

Quarry project of

M/s Marath Enterprises and Crushers Pvt.Ltd

APPLICANT

***Mr. Subramanyan
Koppam
Amayur P.O
Palakkad
Kerala***

PROJECT LOCATION	
<i>Sy.No</i>	<i>369/2</i>
<i>Area</i>	<i>2.1224</i>
<i>Village</i>	<i>Koppam</i>
<i>Taluk</i>	<i>Pattambi</i>
<i>District</i>	<i>Palakkad</i>
<i>State</i>	<i>Kerala</i>

Second Half Compliance Report

(Ref: file. No. E/2703/16/DEIAA dtd. 29/07/2017 (EC No: DIA/KL/PL/4/2017))

***For the period up to
June 2019***

To,

The Director
Department of Environment and Climate Change
Government of Kerala

Sub: Environmental Clearance-Proposed quarry Project Re- Sy. No. 369/2 at Koppam Village, Pattambi Taluk, Palakkad District, Kerala- Second Half (June 2019) Compliance report-Reg.

Ref: file No. E/2703/16/DEIAA dtd. 29-07-2017 (EC No: DIA/KL/PL/4/2017)

Respected Sir,

Our Quarry project was accorded with Environmental Clearance vide order No: E/2703/16/DEIAA dtd. 29-07-2017 (EC No: DIA/KL/PL/4/2017). The Second Half compliance report to the specific and general conditions of the Environmental clearance(Hard copy and Soft copy(CD)) for the period of January 2019- June 2019 is enclosed.

Thanking You

Your Faithfully



Sri. P.K. Subramanyan

Managing Director

M/s Marath Enterprises and Crushers Pvt.Ltd

Copy to

The Regional Director

MoEF Regional Office, southern zone, KendriyaSadan, 4th Floor,

E&F Wing, II Block, Koramangala , Bangalore-560034.

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I. ABOUT THE PROPONENT

Mr. Subramanyan, Proprietor of M/s Marath Enterprises and Crushers Pvt. Ltd in Koppam Village and Pattambi Taluk, Palakkad District, Kerala state.

District Environment Impact Assessment Authority (DEIAA) Palakkad, Kerala, accorded Environmental Clearance No. E/2703/16/DEIAA (EC No: DIA/KL/PL/4/2017) to the quarry project Building Stone Quarry of M/s Marath Enterprises and Crushers Pvt. Ltd in Koppam Village, Pattambi Taluk, Palakkad District, Kerala managed by Shri. Ebrahim Haji.

The quarry project is controlled and managed by Shri. Subramanyan, proprietor of M/s Marath Enterprises and Crushers Pvt. Ltd, Koppam, Amayur (P.O) Palakkad district, Kerala. Phone No: 9447435270 , e-mail: marathcrushers@gmail.com

II. ABOUT THE PROJECT

Project category:

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

b. Project location:

Sy. No. 369/2 at Koppam Village, Pattambi Taluk, Palakkad District, Kerala State. The proposed project site falls within N 10°50'37.2" to N 10°50'42.5" E 76°12'31.3" to E 76°12'30.7".

c. Project extent and activity:

The project is for quarrying of 43,000 TPA of building stone from an area of 2.1224 hectares of land located as specified above.

d. Project description:

The proposed project activity involves about 100 % of the pit area for exploring building stone. At the end of life of mine, excavated pit will be fully reclaimed and rehabilitated by plantation. The proposed project does not involve any underground mining activities. The mining is done by open cast semi mechanized method.

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.	<u>Annexure S-1:</u> Attached copy of mines foreman's Certificate
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	A rain water harvesting structure should be provided	A rain water harvesting structure provided	<u>Annexure S-4:</u> Rain Water harvesting pond

S-5	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-6	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.	<u>Plate S-6:</u> Garland drains.
S-7	Fencing must be maintained properly all around the lease area.	Fencing is maintained properly, around the lease area	<u>Plate S-7:</u> Fenced
S-8	The CSR need redrafting with inclusion of felt needs of the locality.	Scrupulously will follows the direction contained.	
S-9	Appropriate sign boards should be displayed.	Sign boards are displayed,	<u>Plate S-9:</u> Display appropriate sign boards
S-10	The blasting time must be displayed and strictly adhered to.	Blasting time is displayed	<u>Plate S-9:</u> Display Blasting Time board
S-11	Dust suppression mechanism must be in place	Dust suppression mechanism is present	<u>Plate S-10:</u> Sprinklers
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.	

C.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, Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.	Provision is made for storage of rain water	<u>Plate G-1:</u> Rain water harvesting pond
G-2		An Environment Monitoring Cell is constituted and made functional	
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, both approach road and internal road.	
G-4	Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.	Scrupulously will follow the direction contained	
G-5	Sprinklers shall be installed and used in the project site to contain dust emissions.	Sprinklers are used in the project site to contain dust emissions.	<u>Plate G-5:</u> Sprinklers
G-6	Eco-restoration including the mine closure plan shall be done at the own cost of the	It is assured that eco-restoration including the mine closure plan	

	project proponent.	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 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	At the time of the closure of the mine, it shall be ensured that the directions contained are scrupulously followed.	
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.	Activities towards Corporate Social Responsibility are being done in tune with the conditions specified in the Companies Act, 2013.	Annexure G-8: Attached copy of Csr receipts
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.	The direction contained shall be scrupulously followed	Plate G-9: Fenced with barbed wire
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.	Display blasting time board	Plate G-10: Display blasting Time board with Siren
	Control measures on noise and vibration	Scrupulously follows the	

G-11	prescribed by KSPCB should be implemented.	directions contained	
G-12	Quarrying activities should be limited to day time as per KSPCB guidelines.	Quarrying is done only during day time from 7am to 5 pm.	Plate G-12: Display Working Time board
G-13	Blasting should be done in a controlled manner as specified by the regulation of explosives Department or any other concerned agency.	Scrupulously follows the directions contained.	
G-14	A licensed person should supervise /control the blasting operations.	Scrupulously follows the directions contained.	
G-15	Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.	Access roads to the quarry site is concreted	Plate G-15: Access road to the quarry.
G-16	Overburden materials should be managed within the site and used for reclamation of mine pit as per mined closure plan/ specific conditions.	Overburden is stacked in pre-determined site specified for the purpose.	Plate G-16: Overburden is stacked
G-17	Height of benches should not exceed 5 m and width should not be less than 5 m.	Height of the benches is maintained at 5 x 5 m.	Plate G-17: Mining bench's
G-18	Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.	Mats are used during vibration studies	
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.	Plate G-19: Mining depth not below general ground

			level
G-20	No mining operations should be carried out at places having a slope greater than 45°.	It is ensured that no mining is carried out at places having a slope greater than 45°, if any.	
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.	Acoustic enclosures are provided for the existing crusher unit located outside the project site.	
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 G-22: workers with protective equipments
G-23	Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.	Garland drains are provided to channelize storm water.	Plate G-23: Garland drains.
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 G-24: Transportation of materials in covered truck
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 Irul, pala, Thanni, Thengu, kanjiram, Amathalli, rubber, banana are planted	Plate G-25: Sapling Photos
G-26	Disposal of spent oil from diesel engines should be as specified under relevant Rules/	Not applicable	

	Regulations.	Explosives are stored in magazine located in isolated place.	<u>Plate G-27: Magazine</u>
G-27	Explosives should be stored in magazines in isolated place specified and approved by Explosive Dept.		
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	100m buffer distance should be maintained from forest boundaries.	Statutory safe distance shall be maintained without fail.	
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 (Consent No: PCB/PLKD/ICO/F/362/2017 valid upto 31-07-2020)	<u>Annexure G-30;</u> Attached Copy of the pollution certificate.
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.	Clearing are obtaining from; I. D & O License issued from Koppam Grama Panchayath (License No: B2-1374/18) issued by 01/04/2018 valid up to 31/03/2020)	<u>I. Annexure G- 31(I);</u> attached Copy of D & O License issued from Koppam Grama Panchayath

		2. Petroleum and Explosive safety Organization (formerly Department of Explosives) License (No. E/SC/KL/22/1666(E 79896) Valid upto 31-03-2023	<u>2. Annexure G-31(2):</u> attached Copy of explosive license issued from the petroleum and Explosives Safety Organization.
		3. Quarrying Lease deed issued by the Directorate of Mining & geology	<u>3. Annexure G – 31(3):</u> attached copy of the Quarrying Lease deed Directorate of mining & Geology
G-32	In the case of any change 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 projects would require a fresh appraisal by this authority, for which the proponent shall apply and get the approval of this Authority.	The company shall abide by the directions of SEIAA/DEIAA Kerala in such a context, if arises	
	The Authority reserves the right to add	The company shall abide by the	

G-33	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.	directions of SEIAA/ DEIAA Kerala in such a context, if arises.	
G-34	The stipulations by Statutory Authorities under different Acts and Notifications should be complied with including the provisions of 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.	Strict compliance is adhered to and is reviewed periodically by the top management.	
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 Department of Environment and Climate Change, Govt. of	scrupulously follows the directions contained	Annexure G-35: Attached copy of paper cuttings

	Kerala 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.		
G-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.	Copy of EC has been forwarded to the secretary Koppam grama panchayth	
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 e-mail) and upload the Status of compliance of the stipulated EC conditions, including results of monitored data on their website. It shall Sent to the Regional office	Scrupulously follow the direction contained	<u>Annexure G-37:</u> attached Result of monitored data

	of MoEF., Govt of India and also to the STATE Environment Impact Assessment Authority (SEIAA) Office		
G-38	The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x3 ft with green back ground and yellow letters of Times New Roman font of size of not less than 40.	The conditions of Environmental Clearance are prominently displayed in a metallic board.	Plate G-38: display EC details board
G-40	No change in mining technology and scope of working should be made without prior approval of the SEIAA, No further expansion or modification 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-42	Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended places loading and unloading points & transfer point to reduce fugitive emissions.	Scrupulously follow the direction contained	
G-43	The Top soil, if any, shall temporarily to be stored at earmarked sites, only. For the topsoil shall be used for land reclamation and plantation. The over burden generated during the mining operations shall be stacked at earmarked dump site only. The maximum height of the dumps shall not exceed 8 m and	Scrupulously follow the direction contained	

	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 geotextiles 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.		
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 into the river and other water bodies. The water so collected should be utilizing for watering the mine area. Roads, green belt 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.	
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 PM 2.5 such as haul road, Loading and unloading points and transfer	Scrupulously follow the direction contained	

	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	Scrupulously follow the direction contained	
G-47	Measures should be taken for control of noise levels below 85 dBA in 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.	Scrupulously follow the direction contained	
G-49	The funds earmarked for environmental protection measures and CSR activities should be kept in separate account and 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 extend full cooperation to the officer (S) of the Regional Office by furnishing the requisite data /information	Scrupulously follow the direction contained	

	/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 the this clearance and attract action under the provisions of Environment (protection) Act, 1986	Such a situation never come across	
G-53	The SELAA 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 SELAA reserves the right to alter /modify the above conditions or stipulate any further conditions in the interest of environment protection.	The conditions of SELAA/DEIAA are strictly followed	
G-54	The above conditions shall prevail not withstanding anything to the contrary in consistent, or simplified, contained in any other permit, license on consent given by	Scrupulously follow the direction contained	

	other authority for the same project .		
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.	scrupulously follows the directions contained	
G-56	The Environmental Clearance will be subject to the final order of the courts of the 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.	Scrupulously follow the direction contained	Plate G-57: Mining depth not intersect ground water table.
G-58	All vehicles used for transportation and within the mines shall have PUC certificate from authorized pollution talking Centre. 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 drawl of requisite quantity of surface water and ground water for the project.	Scrupulously follow the direction contained	
G-60	Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and	Scrupulously follow the direction contained	

	around the mine lease area shall be carried out and reported in the six monthly reports to SEIAA.		
G-61	Occupational health surveillance program of the workers should be under taken periodically to observe any contractions due to exposure to dust and corrective measures, if needed.	A healthy surveillance programme of the workers is controlled periodically	

ANNEXURE

Cert No. FMR 2009



भारत सरकार / Government of India
खान अधिनियम, 1952 / Mines Act, 1952
खान परीक्षा बोर्ड / Board of Mining Examinations
प्रथम श्रेणी प्रत्येक सक्षमता प्रमाण-पत्र

FIRST CLASS MANAGER'S CERTIFICATE OF COMPETENCY

(केवल ओपनकास्ट खानों तक सीमित)
(Restricted to mines having opencast workings only)

(धातुसिद्धीय खान विनियम, 1961 के अन्तर्गत)
(Under the Metalliferous Mines Regulations, 1961)

श्री अरितराज भौमिक

शुभच सुभाष चन्द्र भौमिक

जिनकी जन्म तिथि 19-09-1977

है जो विहित अर्हताएँ एवं अनुभव

प्राप्त करने का सुतोषजनक प्रमाण प्रस्तुत करने एवं अक्टूबर, 2009 में आयोजित विहित परीक्षा में उत्तीर्ण होने पर एतद्वारा ओपनकास्ट धातुसिद्धीय खानों के प्रबंध हेतु प्रथम श्रेणी प्रत्येक सक्षमता प्रमाण-पत्र प्रदान किया जाता है। यह प्रमाण-पत्र 05-04-2010 से प्रभावी है।

Shri Aritraj Bhoomik

son of Subash Chandra Bhoomik

Born on 19th September, 1977

having given satisfactory evidence of

possessing the prescribed qualifications and experience and having passed the examination held in October, 2009 is hereby granted FIRST CLASS MANAGER'S CERTIFICATE OF COMPETENCY to manage the metalliferous mines having opencast workings only. This certificate is effective from 05-04-2010


सचिव
खान परीक्षा बोर्ड
Secretary
Board of Mining
Examinations


अध्यक्ष
खान परीक्षा बोर्ड
Chairman
Board of Mining
Examinations

Signed and Sealed
Date 17/11/2009

Infinix
NOTE 4

ANNEXURE G-2

DETAILS OF ENVIRONMENTAL MONITORING CELL

Sl No:	Post	Name
1	Head of the monitoring cell	Subramanyan
2	Head in charge (Environment)	Rajan
3	Senior environmental officer	Venu
4	Environmental officer	Dharmman
5	Name of the officer environment, health and safety at site.	Sreedhar Gowda
7	Address of environmental laboratory	Poluchem laboratories (P) Ltd. Chemical, environmental and microbiology laboratory. Ernakulam

LIST OF PLANTS

Sl No	Plants Name
1	Neem
2	Baniyan tree
3	Mango tree
4	Tapioca
5	Jack tree
6	tamarind
7	bamboo
8	Amla tree
9	Banana
10	Mahagani

DETAILS OF ENVIRONMETAL MONITORING CELL



DETAILS OF ENVIRONMETAL MONITORING CELL



DETAILS OF ENVIRONMETAL MONITORING CELL





NANMA CHARITABLE TRUST

Reg.No. 164/04/2013

VILAYUR WEST P.O., KUPPOOTH, PATTAMBI - PALAKKAD, 679 309
e-mail : nanmacharitabletrust1@gmail.com

No 952

Date: 20/4/2019

Received with thanks from Mr/ മുഹമ്മദ് ഹുസൈൻ മുഹമ്മദ്
മുഹമ്മദ് (പി എസ്) (LTD)

the sum of Rupees അൻപതിനായിരം. being donation

₹ 50000/-

rrror\$

Secretary

Treasurer

കിളിക്കോട്ടിൽ ആയിഷ, ചികിത്സാസഹായ കമ്മിറ്റി

പി.ഒ. വിളയൂർ വെസ്റ്റ്, കുഞ്ചുത്ത്, പട്ടാമ്പി, പാലക്കാട് ജില്ല, പിൻ, 679309

നമ്പർ. **468**

സംഭാവന രസീത്

തീയതി 15/03/18

ശ്രീ/ ശ്രീമതി MARATH ENTERPRISES & CRUSHERS PVT Ltd

പക്കൽനിന്ന്

FIFTY THOUSAND RUPEES ONLY

രൂപ

നരസിപുരം കിട്ടിത്തുടങ്ങി.

₹ 50,000/-

ചികിത്സാ സഹായ കമ്മിറ്റി

SBT PULAMANTHOLE BRANCH : Ac/No. 67380501801 - IFSC - SBTR 0000742

FILE NO : PCB/PLKD/ICO-386/5499739/2017
Date of issue : 07/08/2017



KERALA STATE POLLUTION CONTROL BOARD

CONSENT TO

OPERATE/AUTHORISATION/REGISTRATION

ISSUED UNDER

The Water (Prevention & Control of Pollution) Act, 1974
The Air (Prevention & Control of Pollution) Act, 1981

and

The Environment (Protection) Act, 1986

As per Application No. :5499739
Dated:18-07-2017

TO

M/s MARATH ENTERPRISES & CRUSHERS PVT LTD(QUARRY)

Amayur Po,
Koppam,
Palakkad- 679310

Consent No. :PCB/PLKD/ICO/F/362/2017
Valid Upto :31/07/2020



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	31/07/2020
2	Name and Address of the establishment	MARATH ENTERPRISES & CRUSHERS PVT LTD(QUARRY) AMAYUR PO, KOPPAM, PALAKKAD.DT 679310
3	Communication	Telephone :91-8086458645 Fax :- E-mail:marathcrushers@gmail.com
4	Occupier Details	P.K SUBRAMANIAN, MANAGING DIRECTOR, M/s MARATH ENTERPRISES & CRUSHERS PVT LTD, AMAYUR PO,KOPPAM,PALAKKAD.DT,
5	Local Body	KOPPAM
6	Survey Number	369/2
7	Village	KOPPAM
8	Taluk	OTTAPALAM
9	District	PALAKKAD
10	Capital Investment(Rs in Lakhs)	130
11	Scale	Small
12	Category	RED
13	Annual fee(Rs)	20,000/-
	Total Fee remitted(Rs)	1,30,000/-
14	RAW MATERIAL	PRODUCTS
	NITRATE MIXTURE @ Kilogram ELECTRIC DETONATORS,ORDINARY DETONATORS @ Numbers	BLASTED RUBBLES @500 Metric Tonnes
15	Total Power Required (HP)	Excavator-210HP, Breaker-210HP, Compressor-30HP, Total-450HP

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:
- 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)
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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. Quarrying area is restricted to the land having valid lease in survey 369/2 for 2.1224 hectares in Koppam village, Pattambi Taluk. This consent is granted based on Environmental clearance No. DIA/KL/PL/4/2017 dated 29/07/2017. File No.E/2703/16/DEIAA issued by District environmental impact authority Palakkad and Letter of intent No 1622/M3/2017 from mining and geology director dated 15/02/2017.
- 5.2. This consent unless withdrawn earlier shall be valid up to 31/07/2020. If the operation of the quarry is to be continued after 31/07/2020 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 $\mu\text{g}/\text{m}^3$
- b) The PM2.5 in ambient air at the boundary shall not exceed 60 $\mu\text{g}/\text{m}^3$.
- 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 Arrangement for rain water harvesting in the unit shall be done within one month for meeting the entire water requirement of quarry and crusher and the same shall be reported in writing within 35 days. All other conditions of the Integrated Consent to Operate issued as per reference above remain unchanged.

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 :08/08/2017

SIGNATURE & SEAL OF ISSUING AUTHORITY



J. AURTHUR XAVIER
ENVIRONMENTAL ENGINEER

To

P.K Subramanian,
Managing Director,
M/S Marath Enterprises & Crushers Pvt Ltd,
Amayur Po,
Koppam,
Palakkad- 679310







ലൈസൻസ് നമ്പർ: B2- 1374/18

തീയതി: 26/04/2018

കൊപ്പം ഗ്രാമപഞ്ചായത്തിൽ നിന്നും

1994 ലെ കേരള പഞ്ചായത്ത് രാജ് ആക്ട് (1994 ലെ 13) 232,233,234,254 എന്നീ വകുപ്പുകളും അതേ തുടർനൂതന ചട്ടങ്ങളും അനുസരിച്ചു നൽകുന്ന

ഡി & ഒ ലൈസൻസ്

ലൈസൻസിന്റെ പേര് മേൽവിലാസവും	പി.കെ. സുബ്രഹ്മണ്യൻ മാനേജിംഗ് ഡയറക്ടർ, മാരാത്ത് എൻ്റർ പ്രൈസസ് & ക്രഷേഴ്സ് (P).Ltd ആലയൂർ	
സ്ഥാപനത്തിന്റെ പേര്യും സ്ഥല നാമവും	മാരാത്ത് എൻ്റർ പ്രൈസസ് & ക്രഷേഴ്സ് (P).Ltd, ആലയൂർ	
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	369/2 സർവ്വേ നമ്പറൽ ഉൾപ്പെട്ട 2.1224 ഹെക്ടർ സ്ഥലത്ത് 450 HP കമ്പ്രസ്ർ ഉപയോഗിച്ച് കരിങ്കൽ ക്വാറി നടത്തുന്നതിന്.	
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡും നമ്പരും		
ലൈസൻസ് കാലാവധി	01/04/2018 മുതൽ 31/03/2020 വരെ	
ഈടാക്കിയ ലൈസൻസ് ഫീസ്	4000+4000 രൂപ	ഒപ്പിൻ നമ്പർ തീയതി
		118010100736, 118010100737 25/04/2018
ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരാ ക്ഷേപ പത്രങ്ങളുടെ വിശദാംശങ്ങൾ (നമ്പർ, തീയതി, കാലാവധി, നൽകിയ അധികാര സ്ഥാപനം)	1. Environmental clearance certificate valid upto 28-07-2022 2. Pollution certificate valid upto 31-07-2020. 3. Mining and Geology Proceedings. 4. Explosive license valid upto 31-03-2023. 5. Quarry lease valid upto 26-09-2022.	




 സെക്രട്ടറി
 NISHA. N. THAYIL
 Secretary
 കൊപ്പം ഗ്രാമപഞ്ചായത്ത്
 Koppam Grama Panchayath
 Pullasseri P.O. 679 307



ലൈസൻസ് നമ്പർ: B2- 1374/18

തീയതി: 26/04/2018

കൊപ്പം ഗ്രാമപഞ്ചായത്തിൽ നിന്നും

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ഡി & ഒ ലൈസൻസ്

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കെട്ടിടത്തിന്റെ നമ്പരും വാർഡ് നമ്പരും			
ലൈസൻസ് കാലാവധി	01/04/2018 മുതൽ 31/03/2020 വരെ		
ഇടക്കാലിനുള്ള ലൈസൻസ് ഫീസ്	4000+4000 രൂപ	സീൽ നമ്പർ തീയതി	
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 Pullasseri P.O. 679 307

ലൈസൻസി താഴെ പറയുന്ന വ്യവസ്ഥകൾ അനുസരിക്കേണ്ടതാകുന്നു.

1. കേരള പഞ്ചായത്ത് രാജ് ആക്ടും അതനുസരിച്ചുള്ള ചട്ടങ്ങളും മൈലകളും അനുസരിച്ച് പ്രവർത്തിക്കേണ്ടതാകുന്നു.
2. തൊഴിൽ സ്ഥലവും അതിലുള്ള സ്ഥാന സാമഗ്രികളും വിജ്യാവരണധികാരികൾക്കോ സെക്രട്ടറി അധികാരപ്പെടുത്തുന്ന മറ്റുദ്യോഗസ്ഥർക്കോ പരിശോധിക്കുന്നതിന് ലൈസൻസി വേണ്ട സൗകര്യം നൽകേണ്ടതും അവർ ആവശ്യപ്പെട്ടാൽ ഈ ലൈസൻസ് കാണിക്കേണ്ടതുമാണ്.
3. ഏതു സ്ഥലത്തിന്റെ കാര്യത്തിൽ ലൈസൻസ് നൽകിയിരിക്കുന്നുവോ ആ സ്ഥലത്തിന്റെ വരും കാണത്തക്കവിധത്തിലുള്ള ഒരു ഭാഗത്ത് ലൈസൻസി തന്റെ പേരും ലൈസൻസിന്റെ നമ്പരും ഉദ്യോഗവും കാണിക്കുന്ന ഒരു അടയാള പലക വച്ചിരിക്കേണ്ടതാണ്.
4. പഞ്ചായത്തിൽ നിന്നും അനുവാദം ലഭിച്ച കെഷണലോത തൊഴിൽ സ്ഥലം മാറ്റുവാൻ പാടില്ലാത്തതും തൊഴിൽ നിർത്തുന്ന പക്ഷം വിവരം ചുരുക്കി പഞ്ചായത്തിൽ അറിയിക്കേണ്ടതുമാകുന്നു.
5. തൊഴിൽ സ്ഥലവും പരിസരങ്ങളും വൃത്തിയാക്കും സാമൂഹിക മോശാണുക്കൾ ഉണ്ടാക്കാത്ത വിധത്തിലും പൊതുജനോപദ്രവ മോശാത്ത വിധത്തിലും വ്യാപാരത്തിനു വച്ചിട്ടുള്ള ഭക്ഷണ പാദീരഥങ്ങൾ ഈച്ച അണുക്കൾ, പെട്രി മൃതജന്യവായുടെ ഗന്ധം ഉണ്ടാക്കാത്ത വിധത്തിലും സൂക്ഷിക്കേണ്ടതാണ്.
6. ഓരോ പ്രവൃത്തി ദിവസത്തിന്റെയും ഒടുവിൽ സ്ഥലം വൃത്തിയാക്കേണ്ടതാണ്.
7. ആ സ്ഥലത്തിന്റെയോ പരിസരത്തിന്റെയോ ഏതെങ്കിലും ഭാഗത്ത് വീടുകളോ നിക്ഷേപിക്കുകയോ ചെയ്യുന്ന ചുറ്റു ചുറ്റും മൃഗങ്ങളുടെ അവശിഷ്ടങ്ങളോ മറ്റു പാദീരഥമോ ശേഖരിച്ച് സെക്രട്ടറിക്ക് തൃപ്തികരമായ വിധത്തിൽ നീക്കം ചെയ്യേണ്ടതാണ്.
8. ലൈസൻസി ഏതൊരു കെട്ടിടത്തിന്റെയും ചുറ്റുമുള്ള അകമ്പടത്തിന്റെ ഏതൊരു ഭാഗവും ചേർപറഞ്ഞ പരിസരത്തിലുള്ള തടയു കടച്ചതയോ അവിടെ തെറിയു വീശാൻ ഇടയുള്ള ഏതെങ്കിലും ദ്രാവകമോ, മാലിന്യമോ, ചുറ്റുചുറ്റും അസഹ്യവും ഉപദ്രവകരവുമായ ഏതെങ്കിലും പാദീരഥമോ അവിടെ ലയിക്കുന്നത് തടയത്തക്ക വിധം എപ്പോഴും നന്നായി കേടുപാട് നിർമ്മിതികൾക്കിടയ്ക്കേണ്ടതാണ്.
9. ലൈസൻസി ചേർപറഞ്ഞ സ്ഥലത്തോ, പരിസരത്തോ അതോടു ചേർന്നുള്ള ഏതൊരു ദാരു ചാലും അല്ലെങ്കിലും കളയുന്നതിനുള്ള ഉപകരണവും എപ്പോഴും നന്നായി കേടുപാടുതീർത്ത് റബ്ബറിലേക്കേണ്ടതാണ്.
10. അതിന്തോ ആപദിക്കുന്ന കടകളുടെ ലൈസൻസ് റദ്ദ് ചെയ്യുന്നതാണ്.
11. ഏതെങ്കിലും അത്തിലുള്ള തെക്ക് മോശമോ കൃഷി മോശമോ ഗ്രാസമോ പകർച്ച വ്യാധികളോ ഉള്ള യാതൊരാളും കച്ചവടം നടത്തുന്നതിന് ഉപയോഗിക്കുന്ന സ്ഥലത്തും പരിസരത്തും പ്രവർത്തിക്കുവാൻ പാടില്ലാത്തതാകുന്നു.
12. 30 മൈക്രോണിൽ കുറവുള്ള പ്ലാസ്റ്റിക് കളും മറ്റു നിരോധിത പ്ലാസ്റ്റിക് ഇനങ്ങളും ഇൽപാദിപ്പിക്കുകയോ ശേഖരിക്കുകയോ വിൽക്കുകയോ കൈകാര്യം ചെയ്യുകയോ ചെയ്യാൻ പാടില്ല.
13. സ്ഥാപനത്തിന്റെ ബോർഡിൽ സ്ഥലനാശം മലയാളത്തിലും ഇംഗ്ലീഷിലും രേഖപ്പെടുത്തേണ്ടതാണ്.
14. 20 സീറ്റിൽ കൂടുതലുള്ള ഏറ്റവും ചോട്ടമുകൾക്കും റസ്റ്റോറന്റുകൾക്കും ടോഴ്ലറ്റ് സൗകര്യം ഏർപ്പെടുത്തേണ്ടതാണ്.
15. നിരോധിത ഉൽപന്നങ്ങളായ പാൽമസാല, ഗ്ലൂബ്ബ തുടങ്ങിയവ സംഭരിച്ചു വക്കുവാനോ വിൽക്കുവാനോ പാടില്ല.
16. ബാലവേല അനുവദിക്കാൻ പാടില്ല.
17. മുകളിൽ കാണിച്ചിരിക്കുന്ന വ്യവസ്ഥകളുടെ ലംഘനം ഈ ലൈസൻസ് റദ്ദ് ചെയ്യപ്പെടുന്നതിന് കാരണമാകുന്നതാണ്.



സെക്രട്ടറി
കൊപ്പം ഗ്രാമ പഞ്ചായത്ത്
NISHA. N. THAYIL
Secretary
Koppam Grama Panchayath
Pulasseri P.O. 879 307

NB:- ഈ ലൈസൻസ് അവധാനിക്കുന്ന തീയതിക്ക് 30 ദിവസം മുമ്പായിട്ട് പുതുക്കുന്നതിനുള്ള അർഹത സമർപ്പിക്കേണ്ടതാണ്.

Page 1 of 2

[illegible]

DOI: 10.1002/eqm2.1466

State Capital: 17-03-2018

附註: 1. 同。

Dr. P. K. Subramanian, Managing Director
M/s. Global Enterprises & Chemicals Pvt. Ltd., Building No. 4, Kanara Building, Karamba Park, Palakkad Dist., Thiruvananthapuram - 689 001
District P.O. ALCAD, Sree Keralaka, Palakkad - 689 001

[illegible]

Subject: Provision for Use of Explosives from magazine situated at Survey No. 8/5, Block No. 24, Karpool, Tal. Ghumman, Tal. Doh. PALAKKAD, Kerala. Licence No.: USC/RL/276664(E)78996; granted in Force I.E.O. of Explosives Rules, 2005
 1. Assessment of Quantity of Explosives Monthly For date 22/07/2017.

2074

Journal Pre-proof

ADD: QUARRY AT C/301/107P, 1482P, 1968P, 1910P, 19310P, 1950P, 2003/002, KOPPAM VILLAGE, PALAKKAD DIST. 686200

The Journal is indexed/abstracted in MEDLINE, EMBASE, and CINAHL.

ADDOL QUARRY AT S.NO.197/2PT,198/2PT,198/3PT, 198/9PT,198/10PT,205/2PT,203/3,169-2, KOPPAM VILLAGE,
PALAKKAD DISTT.

Recht ist ein Produkt unserer gemeinsamen Identität, ein Ausdruck der menschlichen Natur.

The license capacity at any one time need not exceed the state's total available manufacturing

Case No.	Intervenor (Explainatory)	NO Litigant	per Site	no. of total sites	per Category	per Site
1	Private Migration	0	0	0	0%	0%
2	Government	0	2	2	100%	100%
3	Public Trust	0	1	0	100%	100%

Quali tre affaristi ti offre la più vantaggiosa di tutte (supponi 3) (a) 40% di utile netto di 100 milioni 15.000

Quantity of employees to be purchased is a variable amount applicable for the contract period which 50(1) and 50(2) is 15 hours as above.

We accept: 0105 51 409 3621 for our next

This document shall remain valid till 31st day of March 2023.

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For further information (if requested), please follow the procedure under Rule 112 of Exp./Proc. Rules, 2005. Receipt of this report will please be acknowledged.

Dr. George W. Jones

...the

Figure 4d: South Circle Channel

and the other two are the same as in the first case.

Fig. 13. Closed Controller of Explosives Waste

Amedment Covering Letter

Page 10.

2. Discour. Allegations: PNL 338343. Results with reference to RA Nip No. PNL 2012/10854 closed: 01/01/2014
3. Support/Reports of Police: PNL 338343. Results

Supplement of *Polus*, P41, A&E, & D, Karel

John J. O'Neil, 1980 Chief Counselor of Agriculture
District, 62 South Circle Avenue

The above information regarding dates and times should please read the website www.iasbpo.org

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The quantity of explosives on the premises at any one time shall not exceed the following categories:

Category A means that quantity which exceeds 100 kg weight or more than 100 litres per litre type mix.

The maximum used for storage of explosives shall not exceed the maximum quantity specified in Schedule III and according to the licence holder's plan for use thereof.

The magazine shall be used only for keeping all explosives specified in this licence and of magazines for use of implements for work connected with the mining of each explosive.

A separate record shall be maintained of the stock of explosives.

- 3/27/2018

The Government shall keep records and accounts of all expenses in Forms RE-3 and RE-4 of RE-5, as the case may be, and transmit one such Form and account to any of the officers authorized under the Employees Rules, 2008 whenever such officer may call upon him to do so. The check books and vouchers shall be kept in the office of the officer authorized under the Employees Rules, 2008 and no person other than the officer authorized shall be permitted to use the same.

12. Any changes in allocations shall be entered out to the premises without prior approval of the licensing authority and the licensee shall promptly notify the licensing authority of such changes. The licensee shall report to licensing authority

[illegible]

14 The increase of the fragrance shall subject quantity return as per full rules 14 and 15 of rule 24 of these rules shall not be used otherwise it is not an integral part of the goods and shall be destroyed or returned to the owner.

Any encumbrance of the safety distance shall be immediately communicated to the licensing authority for necessary actions and measures and the license holder shall be subject to a fine of 2000,- Euro.

10. The following activities shall be immediately enjoined for all-100 if any respondent is found disqualified or under restriction:

The explosive packages shall be stacked in such a way as to allow movement of at least one person in front and behind the packages and to avoid the simultaneous detonation of adjacent packages. The explosive packages shall be stacked in such a way as to allow movement of at least one person in front and behind the packages and to avoid the simultaneous detonation of adjacent packages.

The thickness of the lightning conductor to earth shall be as low as possible and in no case be more than 10 mm.

1.6. Every package of explosive as the time of bringing inside the magazine shall be examined for its actual condition.

18 Every package of exclusive is the issue of bringing inside the magazine all the exclusive...
19 No more than + persons will be allowed inside the magazine at any one time.
20 There is no need to mention it again now after the war.

(The end of the copy) and continued

[illegible][illegible][illegible][illegible][illegible]

24. The fireworks shall purchase authorized explosives fireworks on safety fuse as mentioned in the list authorized explosives from a licensed

14. The licensee shall purchase and possess fireworks or safety fuses as mentioned in the list attached with the application for purchase and possession of fireworks or safety fuses. The licensee shall not possess fireworks or safety fuses for more than 30 days from the date of purchase.

15. The licensee shall not possess fireworks or safety fuses for more than 30 days from the date of purchase.

[illegible]

(ii) From (a) to (c), at the least, the following shall be provided:

The construction and use of fire-crackers generating noise level exceeding:
a) 125 dB(A) at 145 dB(C) 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 is the number of fire-crackers in the series;
c) For individual fire-cracker constituting the series (joined fire-crackers), the above mentioned limit be reduced by 5 log₁₀ (N) dB, where N is the number of fire-crackers in the series.

[illegible]

1. अनुक्रमित विवरों में से अधिकतम दो को प्रयोग करें। The license shall not exhibit, possess nor sell.
 Generate all license details.

For more Chief Counselor information
contact us at South Coast Channel

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/K1/111666(E79896) in form LE-3 granted to Sh. P. K. Subrahmanian, Managing Director, M/s. Marath Enterprises & Crushers Pvt. Ltd., Building No.4, Kowals Building, Kootanadu Post, Palakkad Dist., Kerala-679533.

Type of Structure(s)	Safety distances meters	
Inside Safety Distances(ISD)		
1. Room or Workshop used in Connection with the Magazine.	NE	1.51
2. Any other Explosives Magazine or store House or Factory of the Applicant	13	19
3. Magazine Office		
Middle Safety Distances(MSD)		
4. Magazine Keeper's or Clerk's Dwelling house		
5. Railway including Minerals and Private Railways		
6. Canal (on active use) or other navigable water		
7. Dock or Pier or Jetty		
8. Public Highway or Public Road		40
9. Private Road which is PRINCIPAL means of access to a Temple, Mosque, Church, Gurudwara or other places of worship, Hospital, College, School or Factory		
10. River Embankment or Sea Embankment or Public Wall		
11. Reservoir or Bounded tank/pipe way		
12. Windmill 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 Worship		
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, Spirit, gas, or other inflammable or hazardous substances		15
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 : 08/03/2014

For Joint Chief
South India
Chennai

Amendments :

- Amendment in Drawings/Facilities/Premises dated : 10/04/2017
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 18/12/2017
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 27/03/2018
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 27/03/2018

2063

DOC NO. 2063/1/12 - DUP II



B 766224

കേരളം KERALA

FORM H
(See Rule 43)
QUARRYING LEASE

This deed of lease made on this the.....27th..... day of
....September....2017 between the Governor of Kerala (hereinafter
referred to as the "State Government" which expression shall, where the
context so admits be deemed to include his successors and assigns) of the
one part and M/s. Marath Enterprises & Crushers Pvt. Ltd.,
Amayur Post, Koppam, Palakkad District - 679 310 (Represented
by Managing Director, Shri. P. K. Subramanian, Son of
PAN No. ANZ PS 7705A, Election ID No. SFG 023776M
Kuttimon, aged 70 years, residing at Pulikkal House, Choondal

[Signature]
K. R. S. S. R. I. O.
Geologist
District Office of the Department of
Mining and Geology, Palakkad
Pin-678 014.



Lessee

For M/S. MARATH ENTERPRISES
CRUSHERS PVT. LTD.

P. K. SUBRAMANIAN
(Managing Director)

Notarized... DATE 20/11/17... VALUE Rs. 500

GOLD TOB. P. K. ...
G.M. ...



Doc No. 2063/12 - pup. II

Presented in the office of the Sub Registrar
of Vilayur with the photograph and
thumb impression of the buyer / seller /
presentant affixed under section 32A and a
fee of Rs. 8000/-

paid at Rs. 8000/- on the 8th day of November 2013
by P. K. Subramanian

Pullikodan House

P. K. Subramanian

8th November 2013 Sub Registrar
Execution admitted by K. Krishnakumar

Pullikodan House

P. K. Subramanian

S/o. Kasthimon, choondal

For managing director of M/s. Marathi
Enterprises Enterprises Pvt. Ltd. AMOTIV

Identified by

ANDIKODAN HOUSE. A. J. PRIYAN S/O THANKAPPAN
BUSINESS, MAROTTICAL

Pullare kelappathad, Gil Rajesh S/o Parthajashi Amma Documast
Writer naduvattom

I have examined myself that the instrument duly signed
by P. K. Subramanian, Sub Registrar, Dist Office of the Department
Mining and Geology, Pullikodan for and on behalf of the
Governor of Kerala is exempted from personal appearance
in this office under section 22(1) of Indian Registration Act

on the 8th day of November 2013 Sub Registrar
K. Krishnakumar

P.O., Choondal Village, Thalappilly Taluk, Thrissur District - 680 502) (hereinafter called the "lessee/lessees" which expression shall where the context so admits, include his/their heirs, executors, administrators, representatives and permitted assigns) of the other part.

Witnesseth that in consideration of the rents and royalties and lessee's/Lessees' covenants, hereinafter reserved and contained the State Government hereby give on lease to the lessee/lessees the land measuring **2.1224 hectares** described in the schedule hereunder and delineated on the plan hereto annexed and therein coloured red (hereinafter called the "said lands") to hold the same for a period of **Twelve (12) years** commencing from the 27.9.2017 and ending on the 26.9.2029 for the purposes of extracting minor mineral/minerals and subject to the terms and conditions contained in the Kerala Minor Mineral Concession Rules, 2015 (hereinafter referred to as "the Rules") and to the terms and conditions hereinafter appearing

1. The lessee/lessees shall have the right in and upon the said lands to extract Granite Building Stone (here in after called the said mineral/minerals) and to do all acts necessary for the extraction of the said mineral/minerals including the erection on the said lands, buildings and plant required for the purposes and also to take lead and carry away over the said lands and to dispose of the said minerals extracted as aforesaid.
2. The lessee/lessees shall during the subsistence of this lease have the liberty to work the said mineral/minerals and remove the same from the leasehold on permits issued by the State Government/competent authority or any other officer authorized by him in this regard. The permits shall be issued only on the basis of pre-paid royalty at the rates specified in Schedule I to these Rules. The royalty rates shall be subject to revision from time to time as the State Government may order.
3. The lessee/lessees shall pay to the State Government a yearly surface rent equal to the land revenue if any, assessable under the rules for the time being in force, or if the land be the property of Government or in reserve forest then equal to the land revenue plus cess, if any, per hectare of the land the surface whereof shall be occupied or used by the lessee/lessees for any of the purposes of this deed and so in proportion for any area less than one hectare. The said surface rent shall be paid by yearly payments; the first of such payments to be made on or before the last day of the first year of occupation provided always that no such rent shall be paid or demanded in respect of any roads or ways now in existence.

Lessor
K. K. SAJEEVAN
22/9/2017

Lessee

ENTERPRISES &

4. The lessee/lessees shall at all times during the currency of this lease keep correct and intelligible books of account showing accurately the quantity of the said minerals extracted and the weight and value of the said mineral sold or exported together with the names of the purchasers or consignees. The lessee shall also maintain a register of employees showing therein separately men, women employed daily and shall at reasonable times allow the competent authority appointed under the rules (hereinafter referred to as "competent authority") or the officer authorised by him to examine the said books of account and the register of employees and to take copies and extracts there from. The lessee/lessees shall submit reports in Forms F and G on the specified dates.
5. All sums found due under or by virtue of this deed from the lessee/lessees may be recovered from him jointly and severally from them and his/their properties movable and immovable under the provisions of the Revenue Recovery Act for the time being in force as though such sums are arrears of land revenue or in any other manner as the State Government may deem fit.
6. The lessee/lessees shall at the lessee's/lessees' own expense erect and at all times maintain and keep in repair boundary marks and pillars along the boundaries of the said lands according to the demarcation shown in the plan here to annexed.
7. The lessee shall not carry on or allow to be carried on any quarrying operations at or to any points within a distance of 100 metres from any railway line except with the previous written permission of the railway administration concerned and any bridge on National Highway or 50 metres from any reservoir, tanks, canals, rivers, bridges, public roads, other public works, residential buildings, the boundary walls of places of worship, burial grounds, burning ghats or one kilometer from the boundaries of National Park or Wildlife Sanctuaries except with the previous permission of the authorities concerned or the Government or competent authority.
8. The sides of open workings shall be sloped, stepped or secured by the lessee in such a manner as to prevent slope failure, when an open working is worked in steps, steps shall be of sufficient breadth in relation to their height to secure safety. In open workings trees liable to fall and all loose ground and material shall be removed by the lessee sufficiently far from the edge or otherwise made source in order to prevent danger to persons employed in the quarry.

Lessor
27/9/2017
K. K. SAJEEVAN
Geologist
of the Department of

Lessee
For M/S MARATHI ENTERPRISES
P. K. SUBRAMANIAN

9. If a working place is found to be unsafe all persons shall be withdrawn by the lessee/lessees immediately from the dangerous area and all access to such working place except for the purpose of removing the danger of saving life shall be prevented by securely fencing the full width of all entrances to the place.
10. The lessee/lessees shall at all reasonable times allow any officer authorised by the Central Government or by the State Government in that behalf to inspect the said lands and the buildings and plants erected thereon and the lessee/lessees shall assist such persons in conducting the inspection and afford them all information they may reasonably require, and shall conform to and observe all orders which the Central and State Governments as the result of such inspection or otherwise, may from time to time pass.
11. The lessee shall be responsible for implementing the provisions of the Various labour laws applicable, from time to time, to the quarry.
12. The lessee/lessees shall not assign or underlet the said lands or any part thereof or the rights or privileges, therein hereby granted or any of them without the previous permission in writing of the State Government / competent authority.
13. Where the lease or any right, title or interest therein has been assigned, sublet or transferred as provided in rule 45 read with condition 12, then the person in whose favour such assignment, sublease or transfer has been made shall be responsible for implementing the provisions of the various labour laws applicable, from time to time, to the quarry.
14. The lease may be surrendered by the lessee/lessees at any time after 3 months notice in writing to the State Government/competent authority provided the lessee/lessees has/have paid all sums due on account of the lease: Provided that if the lessee/lessees elects/elect, to determine this lease before the expiry of the term of the lease, shall pay in addition to other dues a sum equal to the dead rent payable for the remaining part of the term of the lease deed.
15. If the lessee/lessees shall be desirous of taking a further lease of the said lands he/they shall give three months' previous notice in writing of such desire to the State Government/competent authority and if the lessee/lessees has/have duly observed all the conditions of this lease, the State Government/competent authority may agree to renew the lease for such further term and on such terms and conditions as the State

Lessor
K. K. SAJEEVAN
Geologist
District Office of the Department of
Geology, Palakkad

Lessee
For M/S MARATHI ENTERPRISES &
CRUSHERS PVT. LTD.
S. RAMANIAN

Government/competent authority may determine which shall be in accordance with the provisions of these rules.

16. If the lessee/lessees shall at any time during the said term use the said lands or any part thereof in any manner other than as authorised by this lease or fail to carry on quarrying operations continuously without sufficient cause of which the State Government/competent authority shall be the judge or shall commit a breach of any of the conditions of this lease it shall be lawful for the State Government/competent authority to cancel this lease and take possession of the said lands or the alternative to receive from the lessee/lessees such penalty not exceeding Rs. 25,000 (Rupees twenty five thousand only) for the breach as the State Government/competent authority may fix.
17. If at the expiration of three calendar months after the expiry of the lease or its sooner determination, there shall remain in or the said lands, any engines, machinery, plant buildings, structures and other works erections and conveniences the said minerals or other property which the lessee/lessees are entitled to remove from the said lands, the same shall, if not removed by the lessee/lessees within one calendar month after notice in writing requiring their removal be given to the lessee/lessees by the State Government/competent authority be deemed to become the property of the State Government in such manner as they may deem fit without liability to pay any compensation or to account to the lessee/lessees in respect thereof.
18. This lease subject to all rules and regulations which may from time to time be issued by the State Government regulating the working of the quarries and other matters affecting safety, health and convenience of the lessee's/lessees' employees or of the public, whether under the Indian Mines Act or otherwise.
19. The lessee/lessees shall without delay send to the District Collector and the competent authority or the officer authorised by him in this regard report of any accident causing loss of life or serious bodily injuries or seriously affecting or endangering life or property which may at any time occur at or in the said lands in the course of operations under this lease.
20. The lessee/lessees shall furnish such reports and returns relating to output, labourers employed and other matters as the State Government may prescribe.
21. The lessee/lessees shall make and pay such reasonable compensation as may be assessed by lawful authority in accordance with the law in force

Lessor
22/09/2017
K. K. SAJEEVAN
Geologist
District Office of the Department of
Palakkad

For M/S MARATH ENTERPRISES &
CRUSHERS PVT.LTD.

P. K. SUBRAMANIAN
(Managing Director)

on the subject for all damage, injury or disturbance which may be done by him/them in exercise of the powers granted by this lease and shall indemnify and shall keep indemnified fully and completely the State Government against all claims which may be made by any person or persons in respect of any such damage, injury or disturbance and all costs and expenses in connection therewith.

22. Any condition prescribed in the Kerala Minor Mineral Concession Rules, 2015 but left out in this lease which may be found applicable to the lessee / lessees shall be treated as binding on the lessee/lessees.
23. In this case anticipated royalty for the mineral at rate of Rs. 24/- (Rupees twenty four only) per ton for a period of one year is Rs. **10,32,000/- (Rupees Ten lakh and thirty two thousand only)**
24. Dead rent realized at the rate of Ist year – NIL IInd year - Rs. 300/- (Rupees three hundred only) and IIIrd year onwards - Rs. 1,200/- (Rupees one thousand and two hundred only) per hectare subject to revision from time to time. Surface rent at the rate of Rs 200/- (Rupees two hundred only) per hectare for **one year** is Rs. **424/-** (Rupees Four hundred and twenty four only) and security deposit is Rs **21,224/-** (Rupees Twenty one thousand two hundred and twenty four only)

SCHEDULE OF DESCRIPTION OF LAND

District	: Palakkad
Taluk	: Pattambi
Village/Amsom	: Koppam
Survey No. of the Area	: 369/2
Area in Hectares	: 2.1224 Htr

R.Sy. Block No. 24, Old Sy. No. 261/3, 2, 4, 5, 260/5, 6, 7
as per Doc No 1011/2011 and 2147/2013 and as per

Bounded by Survey No:

Kerala Notary Publication No 7464/17. Dated 23-1-17 and
7468/17 dated 7-1-2017

On the North by	: Re Sy Nos. 369/1
On the East by	: Re Sy Nos. 375
On the South by	: Re Sy Nos. 370, 375
On the West by	: Re Sy No. 368, 370

Lessor

K. K. SAJEEVAN
Geologist

District Office of the Department of
Mining and Geology, Palakkad
Pin-678 014.

For M/S. MARATH ENTERPRISES &
CRUSHERS PVT. LTD.

P. K. SUBRAMANIAN
(Managing Director)

In witness whereof the parties hereto have set their hands here unto on the day and year first above written.

Signed by..... 22/9/2017
for and on behalf of the Governor of Kerala.

K. K. SAJEEVAN
Geologist

In the presence of District Office of the Department of
Mining and Geology, Palakkad
Pin-678 014.

- (1) Sunil Kumar R
Asst. Geologist
Mining & Geology dept, Palakkad
- (2) Vinod M
Asst. Geologist
Mining & Geology dept, Palakkad

Signed by.....
CRUSHERS ENTERPRISES &
P. R. SUBRAMANIAN

for and on behalf of the lessees

In the presence of

- (1) A.T. PRIYAN S/O THANKAPPAN, ANDIKOPAN HOUSE,
MAROTTICHAL P.O. THRISSUR DISTRICT PIN 680014

- (2) K. SIVADAS S/O GOPALAN NAIR, KUTTANIKKAT HOUSE LAKKIDI (PO)
PALAKKAD DT. PIN 679301

പൊതുജന ശ്രദ്ധക്ക്

പാലക്കാട് ജില്ലയിൽ പട്ടാമ്പി താലൂക്കിൽ (പഴയ ഒറ്റപ്പാലം താലൂക്ക്) കൊപ്പം വില്ലേജ് സർവ്വേ നമ്പർ 369/2ൽ പെട്ട 2.1224 ഹെക്ടർ സ്ഥലത്ത് ഒരു ക്വാറി പ്രവർത്തനം തുടങ്ങുന്നതിന് മാരാത്ത് എൻവയോൺമെന്റ് ആൻഡ് ക്രഷേഷൻ പ്രൈവറ്റ് ലിമിറ്റഡ് കൊപ്പം, ആമയൂർ പോസ്റ്റ്, പാലക്കാട്, കേരള 679 310 എന്ന സ്ഥാപനം പ്രൊപ്പോസ് ചെയ്തത് ഡിസ്ക്രിക്ട് എൻവയോൺമെന്റ് ഇംപാക്ട് അസ്സസ്മെന്റ് അതോറിറ്റി (DEAC) 29/07/2017 എന്ന തീയതിയിൽ നമ്പർ DIA/KL/PL/4/2017 ഉത്തരവ് നൽകിയിട്ടുണ്ട്. ആയതിന്റെ കോപ്പി DEAC വകുപ്പിന്റെ ഓഫീസിൽ ലഭ്യമാണ്. കൂടാതെ DEAC ന്റെ വെബ്സൈറ്റ് ആയ www.environmentclearance.nic.inലും ലഭ്യമാണ്.

PUBLIC NOTICE

PUBLIC NOTICE

THIS IS TO INFORM THAT GENERAL PUBLIC THAT THE PROPOSED QUARRY PROJECT AT SURVEY NO 369/2 IN KOPPAM VILLAGE PATTAMBIL TALUK (OLD TALUK OTTAPPALAM) PALAKKAD DISTRICT KERALA STATE BEING DEVELOPED BY M/S MARATH ENTERPRISES AND CRUSHERS PVT LTD KOPPAM AMAYUR POST PALAKKAD KERALA 679310 IS ACCORDED WITH ENVIRONMENTAL CLEARANCE BY DISTRICT ENVIRONMENT IMPACT ASSESSMENT AUTHORITY PALAKKAD KERALA INDIA VIDE THEIR NO DIA/KL/PL/4/2017 DATED 29/07/2017. A COPY OF ENVIRONMENTAL CLEARANCE IS AVAILABLE WITH THE OFFICE OF THE ACCESSMENT AUTHORITY AND MAY BE SEEN ON THE WEBSITE OF THE AUTHORITY www.environmentalclearance.mca.gov.in

PUBLIC NOTICE

PUBLIC NOTICE

THIS IS TO INFORM THAT GENERAL PUBLIC THAT THE PROPOSED QUARRY PROJECT AT SURVEY NO 203/3 IN KOPPAM VILLAGE PATTAMBIL TALUK (OLD TALUK OTTAPPALAM) PALAKKAD DISTRICT KERALA STATE BEING DEVELOPED BY M/S MARATH ENTERPRISES AND CRUSHERS PVT LTD KOPPAM AMAYUR POST PALAKKAD KERALA 679310 IS ACCORDED WITH ENVIRONMENTAL CLEARANCE BY DISTRICT ENVIRONMENT IMPACT ASSESSMENT AUTHORITY PALAKKAD KERALA INDIA VIDE THEIR NO DIA/KL/PL/4/2017 DATED 29/07/2017. A COPY OF ENVIRONMENTAL CLEARANCE IS AVAILABLE WITH THE OFFICE OF THE ACCESSMENT AUTHORITY AND MAY BE SEEN ON THE WEBSITE OF THE AUTHORITY www.environmentalclearance.mca.gov.in



POLUCHEM LABORATORIES (P) LTD.

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

PALLATH BUILDING, N. KALAMASSERY P. O., ERNAKULAM - 683104

Phone : 0484-2544030, 8281982322, 9747400085, 9747400089, www.poluchem.com, poluchem@gmail.com

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TEST REPORT

Page 01 of 01

Client Name & Address Mr. P.K.Subramanyan Marath Enterprises Crusher's (P) Ltd Amayur P.O. Koppam, Palakkad, Kerala	Certificate No	PL/AMB/RT/7791/2019
	Date of issue	28/08/2019
	Date of monitoring	22/08/2019 12.00 Hrs to 23/08/2019 12.00 Hrs
	Date of sample received	24/08/2019
	Date of analysis started	24/08/2019
	Monitoring location	Quarry Owned by Mr. P.K.Subramanyan Marath Enterprises Crusher's(P)Ltd Sy.No.: 369/2 Taluk : Pattambi Village : Koppam Panchayath:Koppam District : Palakkad, Kerala
	Sample description	Ambient air – Near east side boundary
	Sample code given by the client	Nil

PARAMETERS	TEST METHOD	RESULT	Limit as per NAAQS
Particulate Matter (PM ₁₀)	I S 5182 Part 23 2006RA2012	41.5 µg/m ³	100 µg/m ³
Particulate Matter (PM _{2.5})	CPCB	21.7 µg/m ³	60 µg/m ³
Sulphur dioxide	I S 5182 Part 2 2001 RA 2017	7.3 µg/m ³	80 µg/m ³
Nitrogen dioxide	IS 5182 Part 06 2006 RA2017	6.3 µg/m ³	80 µg/m ³

Note: NAAQS-National Ambient Air Quality Standards

End of the Report

The results are related only to the sample collected for analysis. This certificate shall not be reproduced except in full and without the written permission with authorized signatory.	For and on behalf of POLUCHEM LABORATORIES (P) LTD.  AUTHORIZED SIGNATORY
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QUALITY MANAGER
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Client Name & Address Mr. P.K.Subramanyan Marath Enterprises Crusher's (P) Ltd Amayur P.O. Koppam, Palakkad, Kerala	Certificate No	PL/AMB/RT/7792/2019
	Date of issue	28/08/2019
	Date of monitoring	22/08/2019 12.00 Hrs to 23/08/2019 12.00 Hrs
	Date of sample received	24/08/2019
	Date of analysis started	24/08/2019
	Monitoring location	Quarry Owned by Mr. P.K.Subramanyan Marath Enterprises Crusher's (P) Ltd Sy.No.: 369/2 Taluk : Pattambi Village : Koppam Panchayath: Koppam District : Palakkad, Kerala
	Sample description	Ambient air – Near north side boundary
	Sample code given by the client	Nil

PARAMETERS	TEST METHOD	RESULT	Limit as per NAAQS
Particulate Matter (PM ₁₀)	I S 5182 Part 23 2006RA2012	46.8 µg/m ³	100 µg/m ³
Particulate Matter (PM _{2.5})	CPCB	24.4 µg/m ³	60 µg/m ³
Sulphur dioxide	I S 5182 Part 2 2001 RA 2017	6.3 µg/m ³	80 µg/m ³
Nitrogen dioxide	IS 5182 Part 06 2006 RA2017	5.3 µg/m ³	80 µg/m ³

Note: NAAQS-National Ambient Air Quality Standards

End of the Report

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Client Name & Address Mr. P.K.Subramanyan Marath Enterprises Crusher's (P) Ltd Amayur P.O. Koppam, Palakkad, Kerala	Certificate No	PL/AMB/RT/7793/2019
	Date of issue	28/08/2019
	Date of monitoring	22/08/2019 12.00 Hrs to 23/08/2019 12.00 Hrs
	Date of sample received	24/08/2019
	Date of analysis started	24/08/2019
	Monitoring location	Quarry Owned by Mr. P.K.Subramanyan Marath Enterprises Crusher's (P) Ltd Sy.No.: 369/2 Taluk : Pattambi Village : Koppam Panchayath: Koppam District : Palakkad, Kerala
	Sample description	Ambient air - Near South side boundary
	Sample code given by the client	Nil

PARAMETERS	TEST METHOD	RESULT	Limit as per NAAQS
Particulate Matter (PM ₁₀)	I S 5182 Part 23 2006 RA 2012	44.5 µg/m ³	100 µg/m ³
Particulate Matter (PM _{2.5})	CPCB	22.1 µg/m ³	60 µg/m ³
Sulphur dioxide	I S 5182 Part 2 2001 RA 2017	7.7 µg/m ³	80 µg/m ³
Nitrogen dioxide	IS 5182 Part 06 2006 RA 2017	6.3 µg/m ³	80 µg/m ³

Note: NAAQS-National Ambient Air Quality Standards

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Client Name & Address Mr. P.K.Subramanyan Marath Enterprises Crusher's (P) Ltd Amayur P.O. Koppam, Palakkad, Kerala	Certificate No	PL/AMB/RT/7794/2019
	Date of issue	28/08/2019
	Date of monitoring	22/08/2019 12.00 Hrs to 23/08/2019 12.00 Hrs
	Date of sample received	24/08/2019
	Date of analysis started	24/08/2019
	Monitoring location	Quarry Owned by Mr. P.K.Subramanyan Marath Enterprises Crusher's(P) Ltd Sy.No.: 369/2 Taluk : Pattambi Village : Koppam Panchayath:Koppam District : Palakkad, Kerala
	Sample description	Ambient air – Near West side boundary
	Sample code given by the client	Nil

PARAMETERS	TEST METHOD	RESULT	Limit as per NAAQS
Particulate Matter (PM ₁₀)	I S 5182 Part 23 2006RA2012	46.3 µg/m ³	100 µg/m ³
Particulate Matter (PM _{2.5})	CPCB	24.1 µg/m ³	60 µg/m ³
Sulphur dioxide	I S 5182 Part 2 2001 RA 2017	6.4 µg/m ³	80 µg/m ³
Nitrogen dioxide	IS 5182 Part 06 2006 RA2017	5.7 µg/m ³	80 µg/m ³

Note: NAAQS-National Ambient Air Quality Standards

End of the Report

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Client Name & Address	Certificate No:	PL/RT/SD/7795/2019
Mr. P.K.Subramanyan Marath Enterprises Crusher's (P) Ltd Amayur P.O. Koppam, Palakkad, Kerala	Date of issue:	28/08/2019
	Date of monitoring	22/08/2019 12.00 Hrs to 23/08/2019 12.00 Hrs
	Monitoring Location	Quarry Owned by Mr. P.K.Subramanyan Marath Enterprises Crusher's (P) Ltd Sy.No.: 369/2 Taluk : Pattambi Village : Koppam Panchayath: Koppam District : Palakkad, Kerala
	Sample Description	Ambient Sound Level (Leq)
Monitoring Location	Monitoring Time	Results
Near east side boundary	12.00 Hrs	48.7 dB (A)
	13.00 Hrs	47.5 dB (A)
	14.00 Hrs	47.2 dB (A)
	15.00 Hrs	46.3 dB (A)
	16.00 Hrs	45.4 dB (A)
	17.00 Hrs	44.2 dB (A)
	18.00 Hrs	39.7 dB (A)
	19.00 Hrs	38.4 dB (A)
	20.00 Hrs	37.3 dB (A)
	21.00 Hrs	35.2 dB (A)
	22.00 Hrs	34.2 dB (A)
	23.00 Hrs	33.4 dB (A)
	00.00 Hrs	34.2 dB (A)
	01.00 Hrs	35.3 dB (A)
	02.00 Hrs	36.3 dB (A)
	03.00 Hrs	37.4 dB (A)
	04.00 Hrs	39.7 dB (A)
	05.00 Hrs	39.6 dB (A)
	06.00 Hrs	40.3 dB (A)
	07.00 Hrs	41.2 dB (A)
	08.00 Hrs	42.4 dB (A)
	09.00 Hrs	43.6 dB (A)
	10.00 Hrs	42.3 dB (A)
	11.00 Hrs	44.2 dB (A)
Leq (Day time)		47.2 dB (A)
Leq (Night time)		34.3 dB (A)

*End of the Report *

For Poluchem Laboratories (P) Ltd.

Authorized Signatory

SREEJA RAMESH
QUALITY MANAGER
POLUCHEM LABORATORIES (P) LTD.



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Client Name & Address	Certificate No:	PL/RT/SD/7796/2019
	Date of issue:	28/08/2019
	Date of monitoring	22/08/2019 12.00 Hrs to 23/08/2019 12.00 Hrs
	Monitoring Location	Quarry Owned by Mr. P.K.Subramanyan Marath Enterprises Crusher's(P) Ltd Sy.No.: 369/2 Taluk : Pattambi Village : Koppam Panchayath:Koppam District : Palakkad, Kerala
	Sample Description	Ambient Sound Level (Leq)
Monitoring Location	Monitoring Time	Results
Near north side boundary	12.00 Hrs	48.7 dB (A)
	13.00 Hrs	47.6 dB (A)
	14.00 Hrs	47.1 dB (A)
	15.00 Hrs	45.6 dB (A)
	16.00 Hrs	44.2 dB (A)
	17.00 Hrs	41.3 dB (A)
	18.00 Hrs	40.2 dB (A)
	19.00 Hrs	39.5 dB (A)
	20.00 Hrs	35.2 dB (A)
	21.00 Hrs	36.3 dB (A)
	22.00 Hrs	34.2 dB (A)
	23.00 Hrs	33.2 dB (A)
	00.00 Hrs	35.6 dB (A)
	01.00 Hrs	36.4 dB (A)
	02.00 Hrs	38.2 dB (A)
	03.00 Hrs	39.7 dB (A)
	04.00 Hrs	39.6 dB (A)
	05.00 Hrs	40.4 dB (A)
	06.00 Hrs	41.3 dB (A)
	07.00 Hrs	42.2 dB (A)
	08.00 Hrs	43.5 dB (A)
	09.00 Hrs	44.4 dB (A)
	10.00 Hrs	43.3 dB (A)
	11.00 Hrs	44.5 dB (A)
Leq (Day time)		47.2 dB (A)
Leq (Night time)		36.2 dB (A)

*End of the Report *

For Poluchem Laboratories (P) Ltd.

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Client Name & Address	Certificate No:	PL/RT/SD/7797/2019
Mr. P.K.Subramanyan Marath Enterprises Crusher's (P) Ltd Amayur P.O. Koppam, Palakkad, Kerala	Date of issue:	28/08/2019
	Date of monitoring	22/08/2019 12.00 Hrs to 23/08/2019 12.00 Hrs
	Monitoring Location	Quarry Owned by Mr. P.K.Subramanyan Marath Enterprises Crusher's(P) Ltd Sy.No.: 369/2 Taluk : Pattambi Village : Koppam Panchayath:Koppam District : Palakkad, Kerala
	Sample Description	Ambient Sound Level (Leq)
Monitoring Location	Monitoring Time	Results
Near south side boundary	12.00 Hrs	47.5 dB (A)
	13.00 Hrs	46.3 dB (A)
	14.00 Hrs	45.2 dB (A)
	15.00 Hrs	44.2 dB (A)
	16.00 Hrs	43.2 dB (A)
	17.00 Hrs	40.5 dB (A)
	18.00 Hrs	39.7 dB (A)
	19.00 Hrs	37.5 dB (A)
	20.00 Hrs	36.5 dB (A)
	21.00 Hrs	36.2 dB (A)
	22.00 Hrs	35.4 dB (A)
	23.00 Hrs	35.2 dB (A)
	00.00 Hrs	36.3 dB (A)
	01.00 Hrs	38.5 dB (A)
	02.00 Hrs	39.5 dB (A)
	03.00 Hrs	40.5 dB (A)
	04.00 Hrs	41.6 dB (A)
	05.00 Hrs	42.3 dB (A)
	06.00 Hrs	40.2 dB (A)
	07.00 Hrs	40.4 dB (A)
	08.00 Hrs	41.5 dB (A)
	09.00 Hrs	42.2 dB (A)
	10.00 Hrs	41.5 dB (A)
	11.00 Hrs	43.5 dB (A)
Leq (Day time)		46.4 dB (A)
Leq (Night time)		35.3 dB (A)

*End of the Report *

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Client Name & Address	Certificate No:	PL/RT/SD/7798/2019
Mr. P.K.Subramanyan Marath Enterprises Crusher's (P) Ltd Amayur P.O. Koppam, Palakkad, Kerala	Date of issue:	28/08/2019
	Date of monitoring	22/08/2019 12.00 Hrs to 23/08/2019 12.00 Hrs
	Monitoring Location	Quarry Owned by Mr. P.K.Subramanyan Marath Enterprises Crusher's (P) Ltd Sy.No.: 369/2 Taluk : Pattambi Village : Koppam Panchayath: Koppam District : Palakkad, Kerala
	Sample Description	Ambient Sound Level (Leq)
Monitoring Location	Monitoring Time	Results
Near West side boundary	12.00 Hrs	49.6 dB (A)
	13.00 Hrs	48.5 dB (A)
	14.00 Hrs	47.4 dB (A)
	15.00 Hrs	44.2 dB (A)
	16.00 Hrs	44.3 dB (A)
	17.00 Hrs	42.6 dB (A)
	18.00 Hrs	40.4 dB (A)
	19.00 Hrs	38.3 dB (A)
	20.00 Hrs	36.3 dB (A)
	21.00 Hrs	36.3 dB (A)
	22.00 Hrs	34.2 dB (A)
	23.00 Hrs	33.6 dB (A)
	00.00 Hrs	34.2 dB (A)
	01.00 Hrs	35.3 dB (A)
	02.00 Hrs	39.7 dB (A)
	03.00 Hrs	40.2 dB (A)
	04.00 Hrs	43.6 dB (A)
	05.00 Hrs	45.4 dB (A)
	06.00 Hrs	44.2 dB (A)
	07.00 Hrs	46.3 dB (A)
	08.00 Hrs	45.4 dB (A)
	09.00 Hrs	46.5 dB (A)
	10.00 Hrs	45.2 dB (A)
	11.00 Hrs	44.3 dB (A)
Leq (Day time)		47.3 dB (A)
Leq (Night time)		34.5 dB (A)

*End of the Report *

For Poluchem Laboratories (P) Ltd.

SREEJA RAMESH
QUALITY MANAGER

POLUCHEM LABORATORIES (P) LTD.



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CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

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Phone : 0484-2544030, 8281982322, 9747400085, 9747400089, www.poluchem.com, poluchem@gmail.com

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TEST REPORT

Page 01 of 02

Ref.No. PL/RT/SW/7801/2019

Date of Issue: 28/08/2019

Name & address of customer

: Mr. P.K.Subramanyan
Marath Enterprises Crusher's (P) Ltd
Amayur P.O.
Koppam, Palakkad, Kerala

Project Site

: Quarry Owned by Mr. P.K.Subramanyan
Marath Enterprises Crusher's (P) Ltd
Sy.No.: 369/2
Taluk : Pattambi
Village : Koppam
Panchayath: Koppam
District : Palakkad, Kerala

Sample drawn by

: Poluchem Laboratory Sample Collector

Sample description

: Water Sample

Location of sampling

: Surface Water-West Side

Date of sample collected

: 24/08/2019

Date of analysis started

: 24/08/2019

Date of completion of analysis

: 27/08/2019

Parameters tested	Test method	Results	Acceptable Limit As Per IS 10500-2012
Color	IS 3025 (P) 04 - 1983 RA2017	4 Hazen Unit	5 Hazen Unit
Odour	IS 3025 (P) 05 - 1983 RA2017	Agreeable	Agreeable
Turbidity	IS 3025 (P) 10 - 1984 RA2017	BDL	1 NTU
pH	IS 3025 (P) 11 - 1983 RA 2017	6.52	6.5 - 8.5
Total Dissolved Solids	IS 3025 (P) 16 - 1984 RA2017	55 mg/l	500 mg/l
Total Hardness as CaCO ₃	IS 3025 (P) 21 - 1983 RA2014	19.9 mg/l	200 mg/l
Total Alkalinity as CaCO ₃	IS 3025 (P) 23 - 1986 RA2014	23.6 mg/l	200 mg/l
Residual Chlorine	IS 3025 (P) 26 - 1986 RA2014	BDL	0.2 mg/l
Chloride as Cl ⁻	IS 3025 (P) 32 - 1988 RA2014	10.8 mg/l	250 mg/l
Calcium as Ca	IS 3025 (P) 40 - 1991 RA2014	5.46 mg/l	75 mg/l
Magnesium as Mg	IS 3025 (P) 46 - 1994 RA2014	2.12 mg/l	30 mg/l
Total Iron as Fe	IS 3025 (P) 53 - 2003 RA2014	0.20 mg/l	0.3 mg/l
Sulphate as SO ₄	IS 3025 (P) 24 - 1986 RA2009	7.57 mg/l	200 mg/l
Fluoride as F	IS 3025 (P) 60 - 2008 RA 2013	BDL	1.0 mg/l

Note : BDL - Below Detection Level

For Poluchem Laboratories (P) Ltd.

SREEJA RAMESH

QUALITY MANAGER

POLUCHEM LABORATORIES (P) LTD

Authorized signatory



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CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

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Page 02 of 02

Continuation of Test Certificate No: 7801/2019

Parameters tested	Test method	Results	Acceptable Limits As per IS-10500-2012
Selenium as Se	IS 3025 (P)56 -2003 RA2014	BDL	0.01 mg/l
Arsenic as As	IS 3025(P) 37- 1988 RA2014	BDL	0.01 mg/l
Copper as Cu	IS 3025(P) 42- 1992 RA2014	BDL	0.05 mg/l
Manganese as Mn	IS 3025(P) 59- 2006 RA2017	BDL	0.1 mg/l
Cadmium as Cd	IS 3025(P) 41- 1992 RA2014	BDL	0.003 mg/l
Chromium as Cr	IS 3025 (P)52 - 2003 RA2014	BDL	0.05 mg/l
Zinc as Zn	IS 3025 (P)49 - 1994 RA2014	BDL	5 mg/l
Mercury as Hg	IS 3025(P) 48 - 1994 RA2014	BDL	0.001 mg/l
Cyanide as CN	IS 3025(P)27-1986 RA2014	BDL	0.05 mg/l
Lead as Pb	IS 3025(P) 47- 1994 RA2014	BDL	0.01 mg/l
Aluminum as Al	IS 3025(P) 55- 2003 RA2014	BDL	0.03 mg/l
Boron as B	IS 3025(P) 57- 2005 RA2017	BDL	0.5 mg/l

Note : BDL - Below Detection Level

MICROBIOLOGY ANALYSIS

Parameters tested	Unit	Test method	Results	Acceptable Limit As per IS - 10500-2012
Coliforms	MPN/100ml	IS 1622: 1981	90	Absent
E coli	Present or Absent/100ml	IS 1622: 1981	Absent	Absent

For Poluchem Laboratories (P) Ltd.

Authorized signatory
SREEJA K MESH
QUALITY MANAGER
POLUCHEM LABORATORIES (P) LTD.

* End of the report*

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TEST REPORT

Page 01 of 02

Ref.No. PL/RT/SW/7800/2019

Date of Issue: 28/08/2019

Name & address of customer

: Mr. P.K.Subramanyan
Marath Enterprises Crusher's (P) Ltd
Amayur P.O.
Koppam, Palakkad, Kerala

Project Site

: Quarry Owned by Mr. P.K.Subramanyan
Marath Enterprises Crusher's (P) Ltd
Sy.No.: 369/2
Taluk : Pattambi
Village : Koppam
Panchayath: Koppam
District : Palakkad, Kerala
: Poluchem Laboratory Sample Collector
: Water sample
: Surface Water-East Side
(Adjoint plot of M/s. Shalimar Granites)

Sample drawn by

Sample description

Location of sampling

Date of sample collected

Date of analysis started

Date of completion of analysis

: 24/08/2019

: 24/08/2019

: 27/08/2019

Parameters tested	Test method	Results	Acceptable Limit As Per IS 10500-2012
Color	IS 3025 (P) 04 - 1983 RA2017	4 Hazen Unit	5 Hazen Unit
Odour	IS 3025 (P) 05 - 1983 RA2017	Agreeable	Agreeable
Turbidity	IS 3025 (P) 10 - 1984 RA2017	BDL	1 NTU
pH	IS 3025 (P) 11 - 1983 RA 2017	6.33	6.5 - 8.5
Total Dissolved Solids	IS 3025 (P) 16 - 1984 RA2017	45 mg/l	500 mg/l
Total Hardness as CaCO ₃	IS 3025 (P) 21 - 1983 RA2014	13.3 mg/l	200 mg/l
Total Alkalinity as CaCO ₃	IS 3025 (P) 23 - 1986 RA2014	10.6 mg/l	200 mg/l
Residual Chlorine	IS 3025 (P) 26 - 1986 RA2014	BDL	0.2 mg/l
Chloride as Cl ⁻	IS 3025 (P) 32 - 1988 RA2014	9.80 mg/l	250 mg/l
Calcium as Ca	IS 3025 (P) 40 - 1991 RA2014	4.56 mg/l	75 mg/l
Magnesium as Mg	IS 3025 (P) 46 - 1994 RA2014	2.11 mg/l	30 mg/l
Total Iron as Fe	IS 3025 (P) 53 - 2003 RA2014	0.13 mg/l	0.3 mg/l
Sulphate as SO ₄	IS 3025 (P) 24 - 1986 RA2009	6.56 mg/l	200 mg/l
Fluoride as F	IS 3025 (P) 60 - 2008 RA 2013	BDL	1.0 mg/l

Note : BDL - Below Detection Level

For Poluchem Laboratories (P) Ltd.

SREEJA RAMESH
QUALITY MANAGER
POLUCHEM LABORATORIES (P) LTD.

Authorized signatory



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Page 02 of 02

Continuation of Test Certificate No: 7800/2019

Parameters tested	Test method	Results	Acceptable Limits As per IS-10500-2012
Selenium as Se	IS 3025 (P)56 -2003 RA2014	BDL	0.01 mg/l
Arsenic as As	IS 3025(P) 37- 1988 RA2014	BDL	0.01 mg/l
Copper as Cu	IS 3025(P) 42- 1992 RA2014	BDL	0.05 mg/l
Manganese as Mn	IS 3025(P) 59- 2006 RA2017	BDL	0.1 mg/l
Cadmium as Cd	IS 3025(P) 41- 1992 RA2014	BDL	0.003 mg/l
Chromium as Cr	IS 3025 (P)52 - 2003 RA2014	BDL	0.05 mg/l
Zinc as Zn	IS 3025 (P)49 - 1994 RA2014	BDL	5 mg/l
Mercury as Hg	IS 3025(P) 48 - 1994 RA2014	BDL	0.001 mg/l
Cyanide as CN	IS 3025(P)27-1986 RA2014	BDL	0.05 mg/l
Lead as Pb	IS 3025(P) 47- 1994 RA2014	BDL	0.01 mg/l
Aluminum as Al	IS 3025(P) 55- 2003 RA2014	BDL	0.03 mg/l
Boron as B	IS 3025(P) 57- 2005 RA2017	BDL	0.5 mg/l

Note : BDL - Below Detection Level

MICROBIOLOGY ANALYSIS

Parameters tested	Unit	Test method	Results	Acceptable Limit As per IS - 10500-2012
Coliforms	MPN/100ml	IS 1622: 1981	70	Absent
E coli	Present or Absent/100ml	IS 1622: 1981	Absent	Absent

For Poluchem Laboratories (P) Ltd.

Authorized signatory

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QUALITY MANAGER
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* End of the report*

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TEST REPORT

Page 01 of 02

Ref.No. PL/RT/SW/7799/2019

Date of Issue: 28/08/2019

Name & address of customer

: Mr. P.K.Subramanyan
Marath Enterprises Crusher's (P) Ltd
Amayur P.O.
Koppam, Palakkad, Kerala

Project Site

: Quarry Owned by Mr. P.K.Subramanyan
Marath Enterprises Crusher's (P) Ltd
Sy.No.: 369/2
Taluk : Pattambi
Village : Koppam
Panchayath: Koppam
District : Palakkad, Kerala

Sample drawn by

: Poluchem Laboratory Sample Collector

Sample description

: Drinking Water

Location of sampling

: Well Water-North Side

Date of sample collected

: 24/08/2019

Date of analysis started

: 24/08/2019

Date of completion of analysis

: 27/08/2019

Parameters tested	Test method	Results	Acceptable Limit As Per IS 10500-2012
Color	IS 3025 (P) 04 - 1983 RA2017	4 Hazen Unit	5 Hazen Unit
Odour	IS 3025 (P) 05 - 1983 RA2017	Agreeable	Agreeable
Turbidity	IS 3025 (P) 10 - 1984 RA2017	BDL	1 NTU
pH	IS 3025 (P) 11 - 1983 RA 2017	6.23	6.5 - 8.5
Total Dissolved Solids	IS 3025 (P) 16 - 1984 RA2017	42 mg/l	500 mg/l
Total Hardness as CaCO ₃	IS 3025 (P) 21 - 1983 RA2014	12.4 mg/l	200 mg/l
Total Alkalinity as CaCO ₃	IS 3025 (P) 23 - 1986 RA2014	9.66 mg/l	200 mg/l
Residual Chlorine	IS 3025 (P) 26 - 1986 RA2014	BDL	0.2 mg/l
Chloride as Cl ⁻	IS 3025 (P) 32 - 1988 RA2014	10.3 mg/l	250 mg/l
Calcium as Ca	IS 3025 (P) 40 - 1991 RA2014	5.21 mg/l	75 mg/l
Magnesium as Mg	IS 3025 (P) 46 - 1994 RA2014	2.13 mg/l	30 mg/l
Total Iron as Fe	IS 3025 (P) 53 - 2003 RA2014	0.12 mg/l	0.3 mg/l
Sulphate as SO ₄	IS 3025 (P) 24 - 1986 RA2009	6.32 mg/l	200 mg/l
Fluoride as F	IS 3025 (P) 60 - 2008 RA 2013	BDL	1.0 mg/l

Note : BDL - Below Detection Level

For Poluchem Laboratories (P) Ltd.

SREEJA RAMESH

Quality Manager

POLUCHEM

Authorized signatory



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Page 02 of 02

Continuation of Test Certificate No: 7799/2019

Parameters tested	Test method	Results	Acceptable Limits As per IS-10500-2012
Selenium as Se	IS 3025 (P)56 -2003 RA2014	BDL	0.01 mg/l
Arsenic as As	IS 3025(P) 37- 1988 RA2014	BDL	0.01 mg/l
Copper as Cu	IS 3025(P) 42- 1992 RA2014	BDL	0.05 mg/l
Manganese as Mn	IS 3025(P) 59- 2006 RA2017	BDL	0.1 mg/l
Cadmium as Cd	IS 3025(P) 41- 1992 RA2014	BDL	0.003 mg/l
Chromium as Cr	IS 3025 (P)52 - 2003 RA2014	BDL	0.05 mg/l
Zinc as Zn	IS 3025 (P)49 - 1994 RA2014	BDL	5 mg/l
Mercury as Hg	IS 3025(P) 48 - 1994 RA2014	BDL	0.001 mg/l
Cyanide as CN	IS 3025(P)27-1986 RA2014	BDL	0.05 mg/l
Lead as Pb	IS 3025(P) 47- 1994 RA2014	BDL	0.01 mg/l
Aluminum as Al	IS 3025(P) 55- 2003 RA2014	BDL	0.03 mg/l
Boron as B	IS 3025(P) 57- 2005 RA2017	BDL	0.5 mg/l

Note : BDL - Below Detection Level

MICROBIOLOGY ANALYSIS

Parameters tested	Unit	Test method	Results	Acceptable Limit As per IS - 10500-2012
Coliforms	MPN/100ml	IS 1622: 1981	23	Absent
E coli	Present or Absent/100ml	IS 1622: 1981	Absent	Absent

For Poluchem Laboratories (P) Ltd.

SREEJA RAMESH
Authorized signatory
POLUCHEM LABORATORIES (P) LTD.

* End of the report*

The above results are related only to the sample submitted for analysis. This test report shall not be reproduced except in full, without the written approval of the laboratory.

PLATE
(Specific Condition)



Annexure S-4: Rain Water harvesting pond



Plate S-6: Garland drains.

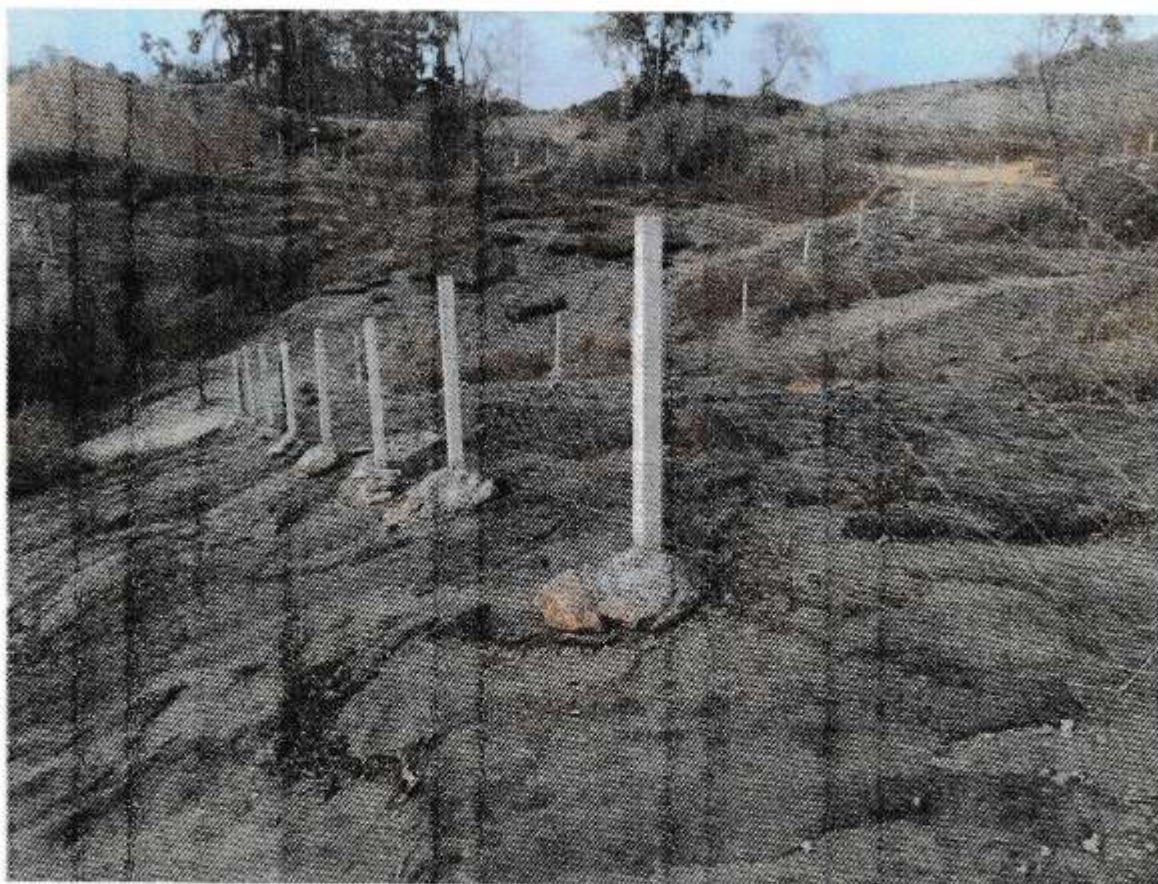


Plate S-7: Fenced



Plate S-9: Display appropriate sign boards

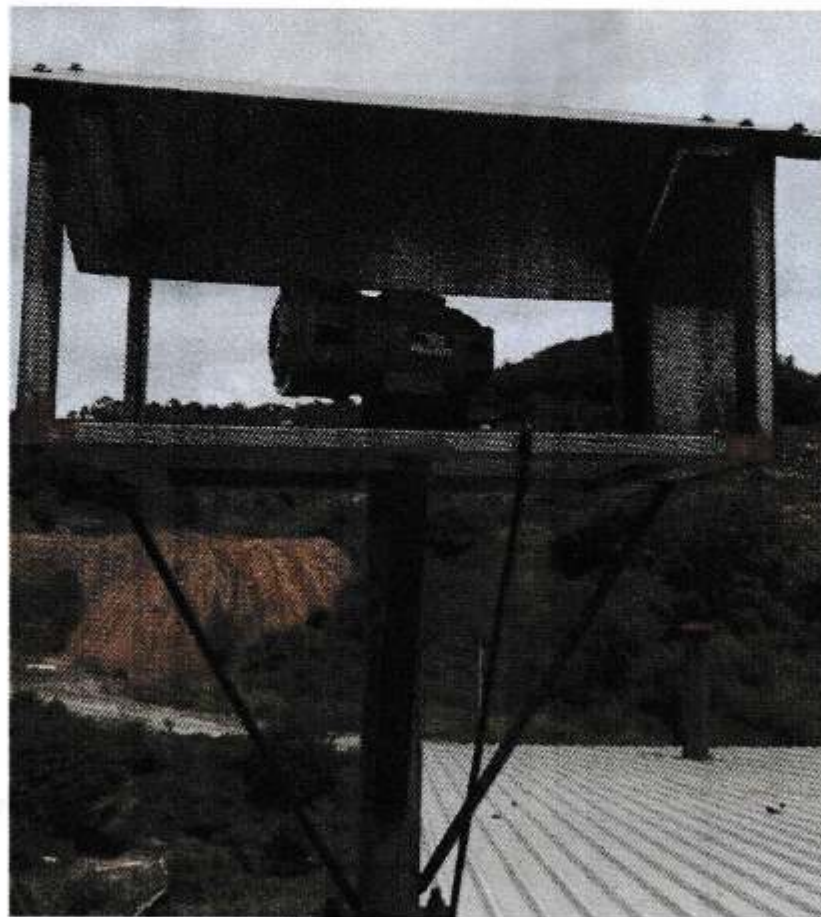


Plate S-9: Display Blasting Time board with Siren



Plate S-10: Sprinklers

(General Condition)



Plate G-1: Rain water harvesting pond



Plate G-5: Sprinklers



Plate G-9: Fenced with barbed wire



Plate G-10: Display blasting Time board



Plate G-12: Display Working Time board



Plate G-15; Access road to the quarry.



Plate G-16: Overburden is stacked



Plate G-17: Mining bench's



Plate G-19: Mining depth not below general ground level



Plate G-22: workers with protective equipments

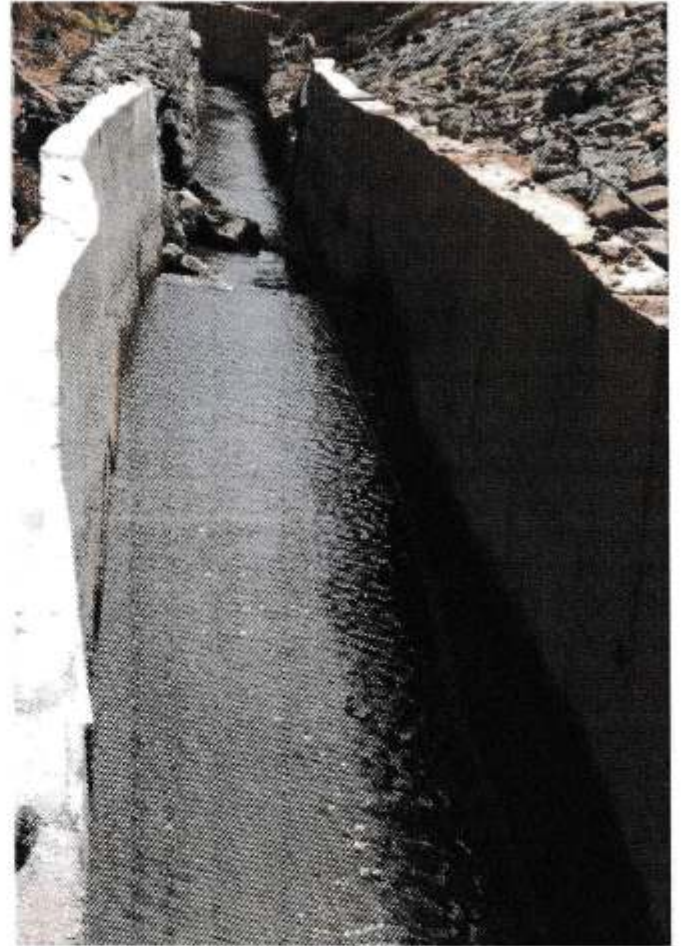


Plate G-23: Garland drains.



Plate G-24: Transportation of materials in covered truck



Plate G-25: Sapling Photos



Plate G-27: Magazine



Plate G-38: display EC details board



Plate G-57: mining depth not intersect ground water table