

Quarry project of

**M/s SOUTHERN ROCK & AGGREGATE MINING
COMPANY**

APPLICANT
Sri. T Mathew Abraham
Proprietor
Painkulam Village
Thalappilly Taluk
Thrissur District
Kerala

Re Sy. No	1019/3,1019/4,1019/5,1019/6,1019/7, 1021/6,1021/8, 1021/9,1027P,1028P,1029P and1030P
VILLAGE	Painkulam
TALUK	Thalappilly
DISTRICT	Thrissur
STATE	Kerala
AREA	7.800 Ha

**FIRST HALF
COMPLIANCE REPORT**

(Ref: E.C. No. 285/SEIAA/KL/1362/2014)

For the period up to
April 2019 – September 2019



SOUTHERN ROCK & AGGREGATE MINING COMPANY

(Govt Approved Mine Owners, PWD & Railway Contractors)

Financed by Kerala Financial Corporation

WORKS :- PAINKULAM P.O, CHERUTHURUTHY, THRISSUR DIST., KERALA - 679 631

Ref:.....

Date: 21/12/19

To,

Chairman/ Member secretary

State Environmental Impact Assessment Authority,

Government of Kerala

Sub: Environmental Clearance - Proposed quarry Project

Ref: Sy.No1019/3,1019/4,1019/5,1019/6,1019/7,1021/6,1021/8,1021/9,1027P,1028P,1029P and 1030P at Painkulam Village, Thalappilly Taluk, Thrissur District, Kerala - The First Half Compliance report-Reg. Ref: E.C. No. 285/SEIAA/KL/1362/2014.dtd.05.12.2014

Respected Sir,

Our Quarry project was accorded with Environmental Clearance vide order E.C. No. 285/SEIAA/KL/1362/2014. Dtd.05.12.2014. The First Half compliance report of the specific and general conditions of the Environmental clearance is enclosed.

Thanking You.

Yours faithfully


PRINCE ABRAHAM
MINES MANAGER

Southern Rock & Aggregate Mining Co
Painkulam P.O., Cheruthuruthy, Thrissur

Ph: 04884-261563

Copy southernrocks999@gmail.com

The Regional Director

MoEF Regional Office, southern zone, Kendriya Sadan, 4th Floor,
E&F Wing, II Block, Koramangala, Bangalore-560034.

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1. ABOUT THE PROPOSER

Sri.T.Mathew Abraham,Proprietor, M/s Southern Rock &Aggregate Mining Company in Painkulam Village and Thalappilly Taluk, Thrissur District, Kerala state.

State Environmental Impact Assessment Authority (SEIAA) Kerala accorded Environmental Clearance No.285/SEIAA/KL/1362/2014 dtd.05.12.2014 to the quarry project M/s Southern Rock &Aggregate Mining Company in Painkulam Village and Thalappilly Taluk, Thrissur District, Kerala state. Managed by Sri.T. Mathew Abraham

The quarry project is controlled and managed by Sri.T.Mathew Abraham,Proprietor, M/s Southern Rock &Aggregate Mining Company in Painkulam Village and Thalappilly Taluk, Thrissur District, Kerala state ; Contact Details; Phone No:9995407570 e-mail: southernrocks999@gmail.com

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.it is further categorized as Category B2.

b. Project location:

Sy.Nos. 1019/3,1019/4,1019/5,1019/6,1019/7,1021/6,1021/8,1021/9,1027P,1028P,1029P and1030P at Painkulam Village, Thalappilly Taluk, Thrissur District, Kerala. The proposed project site falls within 10°44'02.9" N to 10°44'10.8" N and 76°17'38.2" E to 76°34'53.4" E.

c. Project extent and activity:

The project is for quarrying of 3, 00,000 MTA of building stone from an area of 7.800 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	Steep cutting with more than 50m height are seen in the active and old quarried faces. Bench formation is being introduced in the presently active working area on the top but need planning with a main haulage to the top. Hence the steeply cut faces on the lower/bottom region must be fenced and provided with danger signs. It must be worked only after benches are made on the top.	Scrupulously follow the direction	
S-2	Pockets of overburden are seen in the elevated crustal parts and in the eastern flanks. This is now stored in the low lying area but not in the designated places. Sheet flow of rain water can carry soil from this area. This is a need to preserve OB for restoration of the quarry during the closure. Care must be taken when the OB is removed from the steep slopes .Dark humus rich top soil must be preserved.	OB stored properly	

S-3	Mechanism to channelize the water, arrest soil movement, desilting and clarification of water do exist. The old pit in the Centre of the active quarry is used as a settling tank as well as RWH Pond. The entire flow from the quarry face is directed to this pit. The water existing from these areas is not provided with silt traps and lined channels though planned. A proper silt trap mechanism and clarification mechanism must be provided.	Scrupulously follow the direction contained.	
S-4	There is no separate stockyard for the finished product from their crushed unit. Presently it is being stored in open spaces on the southern side.	Scrupulously follow the direction contained.	
S-5	Vegetative covering must be provided in the debris mantle slopes where quarry operation is not planned.	Scrupulously follow the direction contained.	
S-6	100m buffer distance must be provided from the dwelling units.	Scrupulously follow the direction.	

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 G: 1 - Rainwater harvesting pits.
G-2	Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.	Environmental Monitoring Cell headed by the quarry/Mines Manager along with qualified Environmental Consultant/Engineers is being engaged for effective implementation of the pollution control measures.	
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 planted along either side of tarred road	Plate G:3 -Avenue trees planted along either side of tarred road.
G-4	Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.	Installation of Solar lights on the parking area and approach roads are under process.	

G-5	Sprinklers shall be installed and used in the project site to contain dust emissions.	Sprinklers are installed in the project site and outside the project site to minimize the dust emission.	<u>Plate G:5</u> -Sprinklers installed.
G-6	Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.	At the time of the closure of the mine, it shall be ensured that the directions contained are scrupulously followed.	
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 dumblings and overburden and planted with indigenous plant species that are eco-friendly	This will be done at the final stage of the quarry closure.	
G-8	Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented.	Activities towards Corporate Social Responsibility are being done in tune with the conditions specified in the Companies Act, 2013.	<u>ANNEXURE G-8</u> ; Copy of Some Receipts of CSR
G-9	The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mining.	Entire lease area has fenced.	<u>Plate G:9</u> -Fencing around the boundary area.
	Warning alarms indicating the time	As per the stipulations of	

G-10	of blasting (to be done at specific timings) has to be arranged as per Stipulations of Explosive Department.	Explosive Department the warning alarms is being given during the blasting time and it is ensured that no person shall enter the premises at this time.	
G-11	Control measures on noise and vibration prescribed by KSPCB should be implemented	All the measures are implemented to control noise and vibration as per KSPCB guidelines.	
G-12	Quarrying activities should be limited to day time as per KSPCB should be implemented.	Quarrying activities are restricted to only day time as per the KSPCB guidelines.	
G-13	Blasting should be done in a controlled manner as specified by the regulation of explosives Department or any other concerned agency.	Controlled blasting is being followed/practiced as per regulation of explosive department under the supervision of competent persons. Blasting time 10.00 am to 10.30 am and 1 pm to 1.30 pm.	
G-14	A licensed person should supervise /control the blasting operation.	Having one first class manager, second class manager, foreman and two mines mates.	<u>Annexure G: 14</u> -Attached Mines manager Certificate.

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 are tarred and maintained effectively, and also the avenue plantation has been carried out.	<u>Plate G:15</u> -Access Road to the Quarry.
G-16	Overburden materials should be managed within the site and the old quarries, if any should be reclaimed and stored.	Overburden has been stacked inside the quarry and the same will be utilized to back fill the mined area during the mine closure.	
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.	<u>Plate G:17</u> -Bench Height
G-18	Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.	Mats are used during vibration studies	<u>Plate G:18</u> -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.	
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° .	
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	In the crushing unit, entire activity is made in-house and Closed Conveyor System is practiced by constructed with hollow bricks wall and regular	

	that the noise level is kept within prescribed standards given by CPCB/KSPCB.	monitoring is being carried out.	
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.	<u>Plate G: 22</u> -Workers with protective equipment.
G-23	Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.	Garland drains with clarifiers are provided.	<u>Plate G: 23</u> -Garland drains.
G-24	The transportation of minerals should be done in covered trucks to contain dust emissions.	Transportation trucks carrying minerals is covered to contain dust emission.	<u>Plate G: 24</u> -Covered trucks.
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.	It is ensured that, it will be planted 5 times of the loss that has been occurred while clearing.	<u>Plate G: 25</u> -Plantation.
G-26	Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations.	Spent oil from diesel engines will be stored in the empty barrel and the same will be sold to the approval /authorized recycler/processors as per HMW Rules, 2016.	
	Explosives should be stored in	Magazines are stored in isolated	

G-27	magazines in isolated place specified and approved by Explosive Dept.	place.	
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	Statutory safe distance shall be maintained without fail.	
G-29	200m 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 (s) should have been obtained before initiating mining activity.	Consent letter is attached	<p><u>Annexure G-30;</u> Consent No; PCB/TSR/IC/206/07 issued on 12/08/2018, valid up to 30/06/2023.</p>
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>1. Paanjal Grama Panchayath (License No; C3-C3-816-2019/2019-20- 111 valid up to 31/03/2024</p> <p>2. Petroleum and Explosive safety Organization (formerly Department of Explosives) License (No. E /SC/KL/22/867(E40147) valid up to 31/03/2020)</p>	<p>1. Annexure G-31(1); 1. Paanjal Grama Panchayath (License No; C3-C3-816-2019/2019-20- 111 valid up to 31/03/2024</p> <p>2. Annexure G-31(2) Petroleum and Explosive safety Organization (formerly Department of Explosives) License (No. E /SC/KL/22/867(E40147) valid up to 31/03/2020)</p> <p>3. Annexure G-31(3): Copy of the</p>

		3. Annexure G-31(3): Copy of the quarry Lease issued by the DMG Order no:830/2014-15/1794/M3/2015	quarry Lease issued by the DMG Order no:830/2014-15/1794/M3/2015
G-32	In the case of any change in the scope of the project the projects would require a fresh appraisal by this authority.	The Proponent shall abide by the directions of SEIAA Kerala in such a context, if arises	
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.	The proponent shall abide by the directions of SEIAA Kerala in such a context, if arises.	

G-34	<p>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.</p>	<p>Strict compliance is adhered to and is reviewed periodically by the top management.</p>	
G-35	<p>The project proponent should advertise in at least two local news papers 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 District Environmental Impact Assessment Authority (DEIAA) office Kozhikode and may also be seen and may also be seen on the website of the Authority at</p>	<p>Advertisements regarding the obtaining of Environmental Clearance were given in two local newspapers and forwarded to SEIAA.</p>	<p><u>Annexure G-35;</u> Attached Paper Cutting.</p>

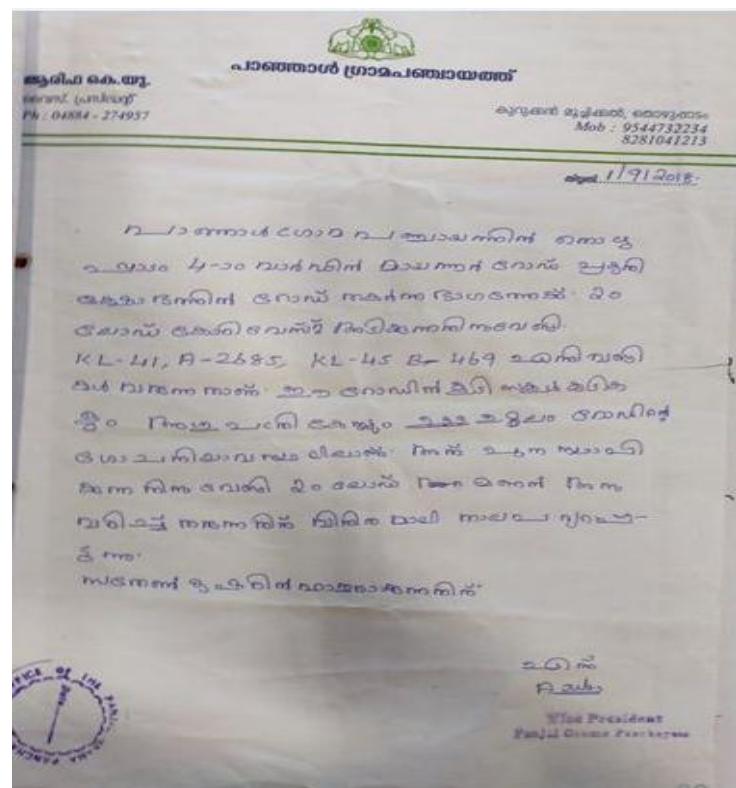
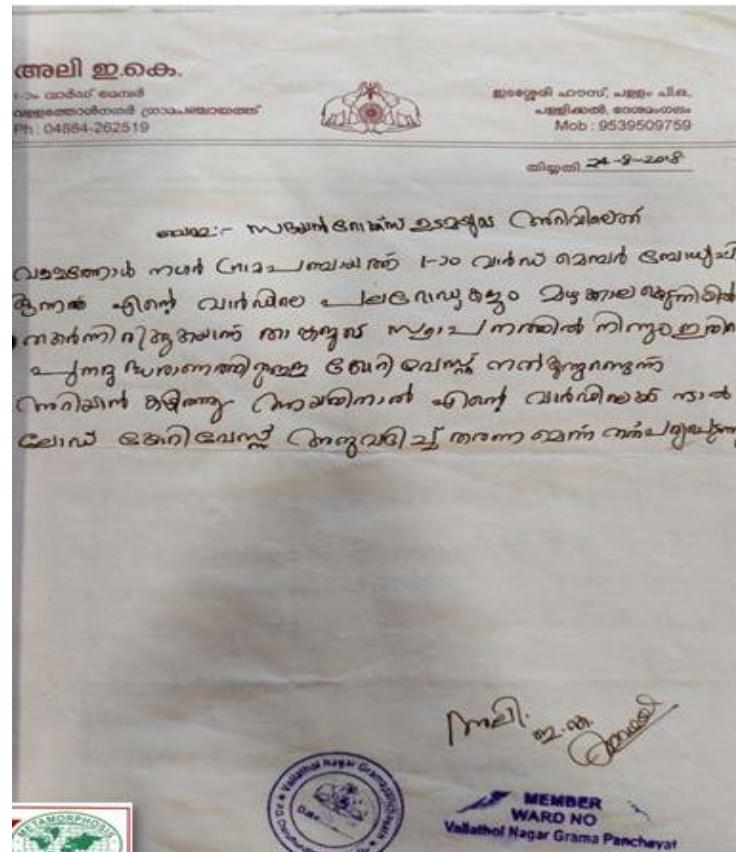
	<p>www.environmentalclearance.nic.in</p> <p>. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.</p>		
G-36	A copy of the clearance letter shall 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.	<ol style="list-style-type: none"> 1. Copy of EC has been forwarded to the secretary Paanjal Grama Panchayth 2. Copy of EC displayed in the notice board of the mining site. 	
G-37	The proponent shall submit half yearly reports on the status of compliance of the stipulated EC Conditions	This report is the FIRST half compliance report. (April 2019- September 2019).	<u>Annexure G- 37:</u> Result of Monitored Data.

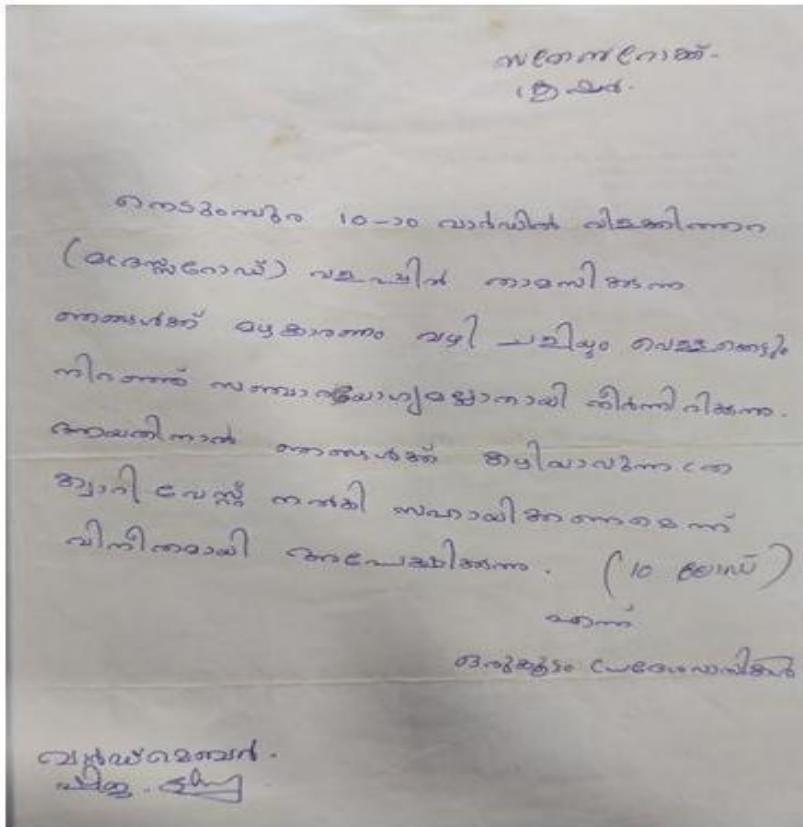
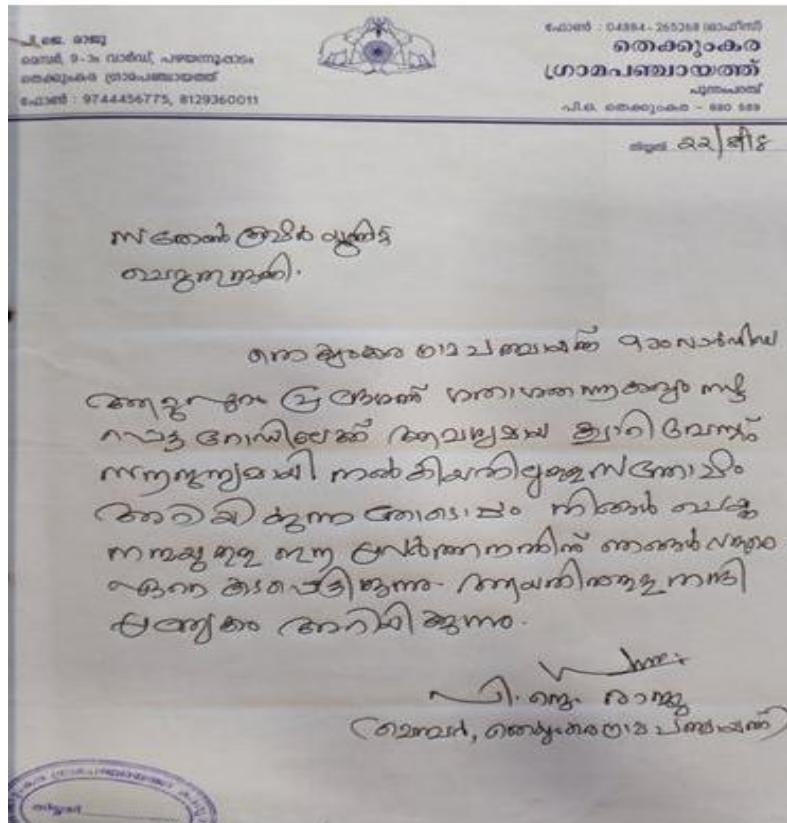
	<p>including results of monitored data (both in hard copies as well as by e-mail) and upload the Status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the respective Regional Office of MoEF, Government of India and also to Directorate of Environment and climate change, Govt. of Kerala.</p>		
G-38	<p>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 extend of lease area boundaries shall be depicted at the entrance of the quarry, visible to the public.</p>	<p>Environmental Clearance displayed in a metallic board.</p>	<p><u>Plate G:38</u>-Environmental Clearance display board.</p>
G-39	<p>The proponent should provide notarized affidavit (indicating the number and date of environmental clearance proceedings) that all the conditions stipulated in the EC shall</p>	<p>Notarized affidavit has been submitted stating that all EC conditions will be followed.</p>	

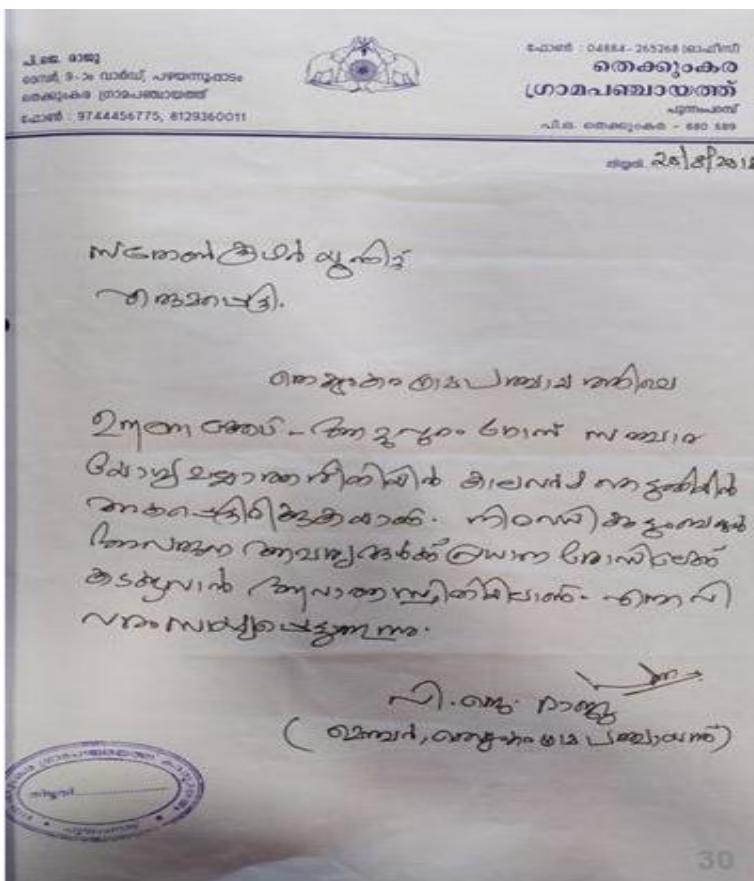
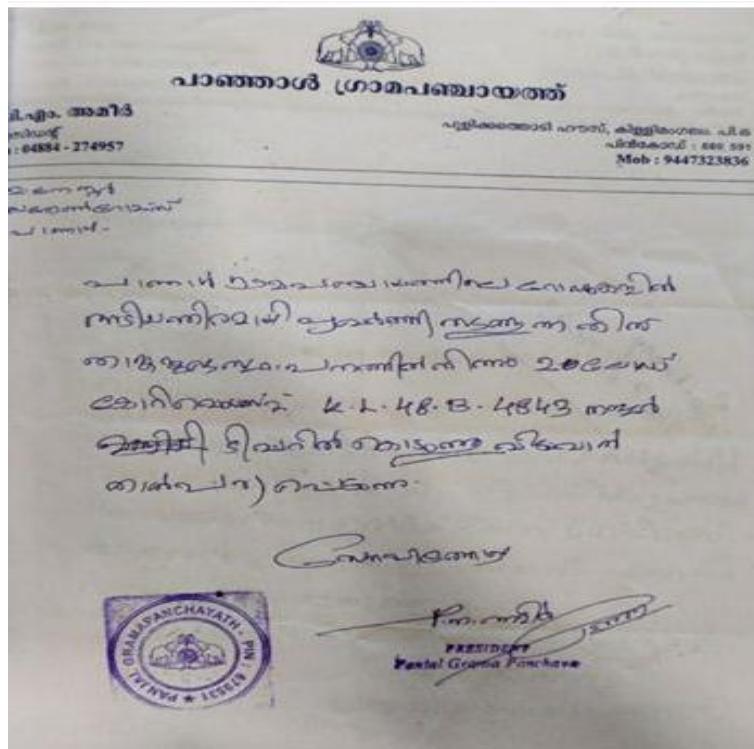
	be scrupulously followed.		
G-40	The above conditions shall prevail notwithstanding anything to the contrary ,in consist, or simplified, contained in any other permit ,license on consent given by any other authority for the same project.	The conditions of SEIAA are strictly followed.	

ANNEXURE

ஏங்களின் கட்டி வெட்டும் (உத்திரவு)







W. H. G. - 60

dark brown mottled marl - with
intercalated thin yellowish marl - thin
yellowish streak long distance. Several soleas
look quite much darker green - free of last and
middle marl - very thin lime intercalated
greenish marl - marl of the very thin lime
yellowish streaks.

KL 51 E 9011 - Swaroj Mehta - Bhairavnathal 21/8/2016 and
to 24/8/2016 - Carro class - Carro class - Carro class
Gurukulam Gurukulam Gurukulam Gurukulam Gurukulam
and Carro class.

118

Assistant Engineer
Local Self Government Department
Shorapur Municipality



ప్రాణికాలు నీ.
ప్రాణికాలు నీ.
ప్రాణికాలు నీ.
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Carried out by, Anglo-Sons
Mob: 9447615392

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நாட்டுக்காலங்களில் (2000s), KU-HRE

ପ୍ରକାଶିତ ବ୍ୟବସ୍ଥାପନଙ୍କ କମିଶ୍ନ୍ଯ

ମାତ୍ରାବ୍ୟକ୍ରମରେ କାହାରେ

BB



KERALA STATE ELECTRICITY BOARD LTD.

(Incorporated under the Indian Companies Act, 1956)
Corporate Identity Number (CIN): U40100KL2011NGC027424
Office of the Assistant Engineer,
Electrical Section, Cheruthuruthy - 679531
Phone (Hnul): 0484 - 262425, (FCT) 949609769
E-mail: 949609769@gmail.com

28/CTV/Gen/2017-18/19-06-18

To

M/s Southern Rocks and Granites,
Cheruthuruthy

Re:

Sub : Meeting natural calamity due to heavy flooding- requirement of quarry waste for
filling pole footing - regarding.

Ref : Tele conversation.

Please issue 3 units of quarry waste for filling the 11KV pole footings damaged due to
heavy flooding at Atture under Electrical Section, Cheruthuruthy.

Yours faithfully,



Assistant Engineer
Electrical Section,
Cheruthuruthy

Copy Submitted to,

The Assistant Executive Engineer/Electrical Sub Division Kundanur.

Acknowledgment No. : 00365



ACKNOWLEDGMENT FOR CONTRIBUTION TO C M D R F KERALA

Received with thanks from Mr. Prince Abraham, Southern Rock And Aggregate
Mining, Cheruthuruthy Post, Thrissur 679 531, Mob: 9995407570, bearing Cheque No: 002842 dated:
15-09-2018 of Federal Bank, Pattambi IFSC Code: FDRL 0001525 for an amount of Rs. 300000/-
Three Lakh Rupees only).

Final receipt can be generated from the C M D R F portal on realization of Cheque / Demand

Draft

Place : Thrissur
Date : 26/10/2018



Name :
Designation :

*Legit
S(K)*





മാനനികാരോധ്യ ആദ്ധ്യാത്മിക്കൾ



After many years of negotiations, the government signed a deal with the president of the company, which made the company legal and permitted.

награда и удовлетворение из ощущения, что человек может достичь чего-то большего, чем то, что он уже имеет, и что он может.

Награды и вознаграждения есть для нас неотъемлемая часть жизни. Но какими должны быть эти награды, чтобы они не становились причиной проблем? Для этого необходимо учесть, что для каждого из нас есть что-то, что является для него ценностью. И если мы хотим, чтобы люди работали, мы должны учесть, что для них есть что-то ценное, что они хотят достичь.



G-14

सान अधिनियम १९५२

THE MINES ACT 1952

द्वितीय श्रेणी प्रब चम संशोधना प्रमाण-पत्र प्राप्तुरपाइक रान के प्रब चम हेतु
MANAGER'S SECOND CLASS CERTIFICATE OF COMPETENCY
TO MANAGE A METALLIFEROUS MINE

(प्राप्तकर्ता का विवर १९६१ के अनुसार)
 (Under the Metalliferous Mines Regulations, 1961)

(के बन विद्युत चमन एवं धूक चमन तक ही सीमित)
 (Restricted to mines having opencast workings only)

प्रिंस अन्नाहुस. टी

विवरों का नाम रिप्रिय ०९. ल०. १९७८ है, विवियम १६ के अनुसार प्राप्तकर्ता का नाम, अधिनियमी में नामक प्राप्त करने पर विवित अनुभव की समाप्ति पर एवं द्वारा केवल विद्युत चमन एवं धूक चमनपाइक चमन के प्रब चम हेतु द्वितीय श्रेणी प्रब चम संशोधना प्रमाण-पत्र प्रदान किया गया है। यह प्रमाण-पत्र ३०.०८.२००२ से २५वीं वर्षमा बंद हो।

Prince Abramam. T

born on ०९ अक्टूबर, १९७८

possessing a Degree

in Mining Engineering approved under Regulation 16 and on completion of the prescribed experience is hereby granted **MANAGER'S SECOND CLASS CERTIFICATE OF COMPETENCY** to manage a metalliferous mine having opencast workings only. This Certificate is effective from ३०. ०८. २००२



इनाम

प्रदान परीक्षा बोर्ड

Members of the Board of
Mining Examinations.

Signed and Sealed

Date : १९

०९ SEP 2002

*Abrahm**Abrahm**Abrahm**Abrahm**Abrahm**Abrahm**Abrahm**Abrahm**Abrahm**Abrahm**Abrahm**Abrahm**Abrahm**Abrahm**Abrahm**Abrahm**Abrahm**Abrahm**Abrahm*

Rishabh

ग-१४

प्राप्तकर्ता नाम

Chairman of the Board of
Mining Examinations.



ANBEKURU G-30

KERALA STATE POLLUTION CONTROL BOARD

FILE NO. : PCB/TSR/IC/206/07

Date of issue : 12/08/2018

INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No : PCB/DO/TSR/R/ICO/804/2018

Ref: 1) Your Online application no:7318944 dated 27.03.2018
2) Consent No: PCB/DO/TSR/R/3/ICO/804/2017 with Validity up to 30.06.2018

The 'Integrated Consent to Operate' issued as per reference above to M/s Southern Rock & Aggregate Mining Company (Crusher), Painkulam P.O., Cheruthuruthy, Thrissur-679531 is hereby renewed up to 30/06/2023 and issued to M/s Southern Rock & Aggregate Mining Company (Crusher), Painkulam P.O., Cheruthuruthy, Thrissur-679531. The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

I. GENERAL

S.No.	Items	Description
1	Validity	30.06.2023
2	Fee remitted	Rs 123200/-
3	Annual Fee	Rs 22000/-

II. Stack Details

Stack No.	Source of Emission	Emission Rate(Nm ³ /hr)	Stack Height above		Control Equipment
			Ground Level (In Meters)	Roof Level (In Meters)	

III. CONDITIONS

3.1 Application for renewal of consent shall be submitted online (krcmms.nic.in) two months in advance of the date of expiry of validity of the consent. Late application will be accepted only with fine as applicable.

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

SUSEELA NAIR V A

Digitaly signed by SUSEELA NAIR V A
Date: 2016-08-12 20:27:30 +05'30'

DATE :12/08/2018

SIGNATURE & SEAL OF ISSUING AUTHORITY
ENVIRONMENTAL ENGINEER



To

Sri T.Mathew Abraham,
Thekkummoottil House,
Vallankulam P.O, Thiruvalla,
Pathanamthitta-689541.

1. This digitally signed document is legally valid as per the Information Technology Act 2000

2. For verifying this document please go to krocmins.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.



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ກອບການຄ່າການ

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Digitized by srujanika@gmail.com

LICENCE FORM LE-3

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

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



Licence No. : E/SC/KL/22/867(E40147)

Annual Fee Rs 2400/-



1. Licence is hereby granted to : **Shri T. Mathew Abraham, Prop. Southern Rock & Aggregate Mining Company (Occupier) : T. Mathew Abraham**

**Painkulam P.O. (Via.) Cheruthuruthy, Taluk - Talappilly, Town/Village - Painkulam
District - TIRISSUR, State - Kerala, Pincode - 679531**

2. Status of licensee : **Individual**3. Licence is valid only for the following purpose : possess for use of **Nitrate Mixture, Safety Fuse, Ordinary Detonator, Electric Detonators**.

4. (a) Licence is valid for the following kinds and quantity of explosives:

Sr. No.	Name and Description	Class & Division	Sub-division (If any)	Quantity at any one time
1.	Nitrate Mixture	2,0	0	150 Kg
2.	Safety Fuse	6,1	0	1500 Mtrs
3.	Ordinary Detonator	6,3	0	2000 Nos
4.	Electric Detonators	6,3	0	3000 Nos

(b) Quantity of explosives to be purchased in a calendar month [applicable for licence under article 3(b) and (c)] : **20 times as above.**

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

Drawing No : E/SC/KL/22/867(E40147) dated : 19/03/2007

6. The licensed premises are situated at following address:

Survey No(s). 1034, Town/Village : Painkulam, Thalappilly talukPolice Station : **Cheruthuruthy**

PinCode :

Phone :

District : **TIRISSUR**

E-Mail :

State : **Kerala**

Fax :

7. The licensed premises consist of following facilities : **three Portable Explosives Magazines of A & S type and D type (524) fabricated by M/s. Thakkans & Industrial Explosives Ltd**

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

(1) Drawings (showing site, constructional and other details) as stated in serial No. 5 above.

(2) Conditions and Additional Conditions of this licence signed by the licensing authority.

(3) Distance Form DE-2

9. This licence shall remain valid till **31st day of March 2009**

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.

The Date: 19/03/2007

Sd/-

Joint Chief Controller of Explosives
South Circle, Chennai

Amendments :

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 19/07/2011
- Amendment in Drawings/Facilities/Premises dated : 05/02/2013
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 05/02/2013

Endorsement for renewal of licence:

Date of Renewal	Date of Expiry	Signature of licensing authority
28/01/2015	31/03/2020	Dy. Chief Controller of Explosives, Ernakulam C. S. V. N. I., എന്നകുളം D. C. C. E., Ernakulam

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

(Set VIII)

The following are the conditions of licence number E/SC/K1/22/867(E40147) to possess for sale or use, explosives of Class 1,2,3,4,5, 6 and 7 in a magazine in Form I.E-3 (articles 3(b) to (c)) granted by Chief controller of Explosives or Controller of Explosives.

1. The quantity of explosives on the premises at any one time shall not exceed the licensable capacity.
2. The magazine used for storage of explosives shall maintain safety distance specified in Schedule III and annexure to the licence.
3. 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.
4. The opening of packages and the weighting and packing of explosives shall not be carried on in the magazine.
5. 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.
6. 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.
7. 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.
8. 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. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. The licensee of the magazine shall submit quarterly return as per sub-rules (3) and (4) of rule 24 of these rules.
16. Any encroachment of the safety distance shall be immediately communicated to the licensing authority for necessary advice and action.
17. The licensing authority shall be immediately informed for advice if any explosive is found deteriorated or unserviceable.
18. 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.
 The resistance of the lightning conductor to earth shall be as low as possible and in no case be more than 10 ohms.
19. The resistance of the lightning conductor to earth shall be as low as possible and in no case be more than 10 ohms.
20. A distance of 15 meters surrounding the magazine or store house shall be kept clear of dried grass or bush or flammable materials.
21. Every package of explosive at the time of bringing inside the magazine shall be examined for its sound condition.
22. Not more than 4 persons shall be allowed inside the magazine or store house at any one time.
23. Empty packages of the explosives shall be removed at the earliest and destroyed.
24. The licensee and the employee shall be conversant with procedure to be taken during the emergency within the premises.
 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.
25. 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 license shall execute the recommendations and report compliance within the period specified by such authority.
26. 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.
27. The possession and sale of fire-crackers generating noise level exceeding:
 a) 125 dB(A) 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 $5 \log_{10} (N)$ dB, where N = number of crackers joined together.
28. 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.

For Joint Chief Controller of Explosives
South Circle, Chennai

28-01-2015
D. C. C. S., Ernakulam



GOVERNMENT OF INDIA
MINISTRY OF COMMERCE & INDUSTRY
PETROLEUM AND EXPLOSIVES SAFETY ORGANISATION(PESO)
(Formerly Department of Explosives)
Kendriya Bhavan, Block C-2, 3rd Floor
CSEZ PO Kakkanad Dist. Ernakulam Ernakulam 682037
Tele: 2427286 Fax: 2427276
Email: dycceernakulam@explosives.gov.in

No.E/SC/KL/22/867(E40147)

Dated : 28/01/2015

To.
Shri T. Mathew Abraham Prop. Southern Rock & Aggregate Mining Company.
Painkadam P.O. (Via.) Cheruthuruthy, Taluk - Talappilly
Distt. THRISSUR, State. Kerala, Pincode-679531

Subject: Possession for Use of Explosives from magazine at Survey No(s).:1034, Village/Town. Painkulam, Thalappilly
taluk, Distt. THRISSUR, State Kerala Licence No.: E/SC/KL/22/867(E40147) granted in Form LE-3 of Explosives
Rules, 2008 - Renewal regarding

Sir(s),

Reference to your letter No.: nil dated 22/01/2015, the subject licence duly renewed upto 31/3/2020 and issued in Form LE-3 of Explosives Rules, 2008 is forwarded herewith.

Conditions:

1) Valid authorised quarry permit/lease in the name of the licensee for blasting operations at Sy.No.1027 Pt., 1028 & 1030 Pt. of Paikulam Village, Thrissur and local state government authorities approval as applicable renewed from time to time shall be in possession.
For further renewal of licence, please submit the following documents so as to reach this office on or before 31/3/2020.

- Application in Form RE-1 duly filled in and signed.
- Licence fees for one to five years in the form of demand draft drawn on any Nationalized Bank in favour of **Jt. Chief Controller of Explosives, Chennai payable at Chennai.**
- Original licence with approved plan.
- In this connection, please also refer to Rule 112 of Explosives Rules, 2008.

- Indent for purchase of explosives shall be placed in RE-11 with the supplier and copy of the same shall be sent to this office.(Not applicable for fireworks store house)
- Please submit quarterly returns of explosives in RE-7 at the end of every quarter so as to reach this office by 10th of the succeeding quarter.(Not applicable for fireworks store house)
- All blasting operations shall be carried out by a competent person holding a valid shot firer's permit granted under above rules. However, blasting operations in mines coming under the purview of the Mines Act 1952, the blaster shall have qualifications prescribed in the regulations framed under the said Act.

An amount of Rs. 1680/- balance is in your credit, which may be utilized for future transaction by quoting this reference.

Enclosures :

Yours faithfully,
T O Sasi
Deputy Chief Controller of Explosives
S. C. C. S., Ernakulam
D. C. C. S., Ernakulam

Copy Forwarded to:

1. District Magistrate, THRISSUR (Kerala) for information.

Deputy Chief Controller of Explosives
Ernakulam

[For more information regarding status, fees and other details, please visit our web site <http://peso.gov.in>]

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/22/867(E40147) in form LE-3 granted to Shri T.Mathew Abraham, Prop. Southern Rock & Aggregate Mining Company, Painkulam P.O. (Via.) Cheruthuruthy, Taluk -Talappilly, Kerala.-.

Type of Structure(s)		Safety distances meters	
Inside Safety Distances(ISD)		M	UM
1	Room or Workshop used in Connection with the Magazine	13	19
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	40	
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	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 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, Spirit, 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 : 19/03/2007

Amendments :

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 19/07/2011
- Amendment in Drawings/Facilities/Premises dated : 05/02/2013
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 05/02/2013

For Joint Chief Controller of Explosives

South Circle, Chennai

3.9.19.11., 13-12-2014
D. C. C. R., Painkulam

PROCEEDINGS OF THE DIRECTOR OF MINING & GEOLOGY

Sub : Mines & Minerals - Minor Minerals - Granite(Building Stone) - Quarrying lease to Sri T Mathew Abraham, Proprietor, M/s. Southern Rock & Aggregate Mining Company , Vallamkulam P.O, Thiruvalla, Pathanamthitta, Kerala 689541 sanction - orders issued.

Ref : 1. Application dated 20/2/2015 from Sri T Mathew Abraham, Proprietor, M/s. Southern Rock & Aggregate Mining Company , Vallamkulam P.O, Thiruvalla, Pathanamthitta, Kerala 689541
 2. Letter No.85/C2/TDO/2015 dtd 18.2.15 & 21.2.15 from the Geologist, District Office, Thrissur
 3. Kerala Minor Mineral Concession Rules,2015
 4. Pro.No.285/SEIAA/KL/1362/2014 dtd. 5.12.2014 of Member Secretary, SEIAA

No.830/2014-15/1794/M3/2015

Dtd., Thiruvananthapuram, 07.03.2015

ORDER

A quarrying lease is granted to Sri.T.Mathew Abraham, Proprietor, M/s. Southern Rock & Aggregate Mining Company , Vallamkulam P.O, Thiruvalla, Pathanamthitta, Kerala 689541 to quarry Granite (Building Stone) over an area of 7.8000 hectares of private land comprised in Survey Nos. 1019/3,4,5,6,7,1021/6,8,9,1027P, 1028P,1029P,1030P of Painkulam Village, Thalapilly Taluk, Thrissur District for 12(twelve) years from the date of execution of the quarrying lease deed under the Kerala Minor Mineral Concession Rules, 2015 and as per the survey map issued by the Tahsildar, Thalapilly and the approved Mining Plan and environmental clearance submitted by the applicant subject to the under mentioned condition.

1. Royalty is payable to Government as per Rule 32 of the Kerala Mineral Concession Rules, 2015 in respect of minor mineral quarried and moved out of the quarry subject to revision from time to time on the basis of amendments to the schedule I of the said Rules.
2. Dead rent is realizable under of the said rules subject to revision from time to time on the basis of amendments to the schedule II of the said rules.
3. Surface rent realizable under of the said rules will be equal to the land revenue assessed by the Revenue Department subject to revision from time to time on the basis of the land revenue.
4. The lessee shall execute a quarrying lease deed within a period of six months from the date of this order in form 'H' as per Rule 43 of the Kerala Minor Mineral Concession Rules, 2015.
5. The lessee shall also deposit an amount of Rs. 10,000/- (Rupees Ten Thousand only) as security deposit for the observance of the terms and conditions of the lease before the deed is executed as per rule 42 of the said rules. The lessee shall commence quarrying operation only after the deed is executed and registered.
6. The quarrying area shall be demarcated and boundary stones fixed at the lessee's expenses before execution of the quarrying lease deed.
7. The lessee shall not win and dispose of any type of dimension and decorative stones from the area over which the quarrying lease has been sanctioned on the strength of this order
8. The production of Granite (Building Stone from the area covered under this grant shall be subject to the quantity specified in the Mining Plan submitted by the lessee. (2,65,000 tones per year)



X1

9. (i) The lessee shall erect a notice board in Malayalam at a prominent place with a minimum size of 1 metre X 1.5 metres in a metallic board near to the entrance of the quarry to the effect that it shall contain the name and address of the permit holder, mineral concession number and date, the mineral to extracted, permit number and date and its date of expiry, quantity of extraction permitted (if applicable), area of extraction permitted, explosives used (if any), etc.

(ii) The lessee shall erect a warning board with danger sign regarding operation of the quarry, 100 metres away by the side of the road leading to it.

10. The lessee should provide retention wall/barricade/fencing compound wall surrounding the quarry before the commencement of the quarrying operation for preventing accidents by failing of human being animals, vehicles and material into the quarry. The lessee should take effective preventive measures for the safety of labourers as well as the general public.

11. The lessee should leave a distance of 7.5m from the adjacent boundary lands including government puramboke land while carrying out quarrying operations.

12. The lessee should not assign, sublet or transfer his lease or any right or interest therein to any person without previous permission of the Director of Mining & Geology.

13. The lessee shall pay tax related to Revenue Department, if any, as directed by them and the details should be furnished to the Geologist periodically.

14. The lessee shall operate the quarry in accordance with the condition stipulated in the environmental clearance and mining plan submitted by him.

15. The lessee shall obtain all other statutory licences/clearances/No Objection Certificates from other authorities concerned including Explosive licence, consent from Pollution Control Board and D & O licence from the Local Self Government Department concerned.

16. The quarrying lease will become invalid if the lessee fails to renew the Environmental Clearance after 30.9.2019.

17. The lessee shall produce a financial guarantee of Rs. 1,95,000/- (One lakh ninety five thousand only) as stipulated in rule 62 of the KMMC Rules, 2015 before execution of lease deed.

18. The lessee shall pay ten percent of the amount of royalty/consolidated royalty, as the case may be paid by him, being the quarry safety fund in addition to the royalty/consolidated royalty, as per rule 63 of the KMMC Rules, 2015.

The terms and conditions stated in this order will be subjected to such further modifications as may be made by the State Government from time to time.

Sd/-

D.P.SREEKUMAR
DIRECTOR OF MINING & GEOLOGY

To. ✓ Sri.T.Mathew Abraham, Proprietor,M/s. Southern Rock & Aggregate Mining Company ,
✓ Vallamkulam P.O,Thiruvalla, Pathanamthitta, Kerala 689541

Copy to :

1. The Deputy Director General, Directorate General of Mines Safety, Southern Zone, Bangalore- 56 00 29
2. The District Collector, Thrissur
3. The Geologist, District Office Thrissur
4. The Tahsildar, Thalapilly
5. Stock File (2) File Copy

(By Order)

*Janardhan
10/03/2015*

SENIOR SUPERINTENDENT

Ls/9.3



PUBLIC NOTICE
This is to advise the General
Public and State Level Easier
Assessment Committee (SLEAC)
that the (Certified by the
Competent Authority) as per
prescribed procedure under
SIA 2006/2011, namely
Environmental Clearance
under the provision of Environ-
mental Impact Assessment
Notification, 2004. A lot of
Building State Control prior
to Survey Nos. 10194A, 10194B,
10194C, 10194D, 10194E, 10194F,
10211B, 10211P, 10211Q,
10235A, 10235B, 10235C,
Fanie, Pennsylvania, Thirteenth
Town, Thirteenth District, Penn-
sylania, State of USA. Southern
5. Anthropogenic Studies Com-
pany, Plot No. 22, Block No. 10,
1024025A or, S-1024024, 1024025B
copy of Environmental Clearance
is available at the Department of Environ-
mental Quality, State of Pennsylvania
and anyone can inspect the same
on the address above.



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CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

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G-37

TEST REPORT

Page 01 of 01

Client Name & Address	Certificate No:	PL/AMB/RT/8750/2019
M/s. Southern Rock & Aggregates Mining Company Painkulam Cheruthuruthy Thrissur	Date of issue:	28/08/2019
	Date of monitoring	20/08/2019 10.00 Hrs to 21/08/2019 10.00 Hrs
	Date of sample received:	22/08/2019
	Date of analysis	22/08/2019
	Monitoring Location	M/s. Southern Rock & Aggregates Panchayath: Paanjal Village: Panikulam District: Thrissur, Kerala.
	Sample description	Ambient air – Near East side boundary
	Sample code given by client	Nil

SL NO	PARAMETERS	TEST METHOD	RESULTS	Limit as per NAAQS
01	Particulate Matter (PM ₁₀)	IS 5182 Part 23 2006 RA 2012	46.3 $\mu\text{g}/\text{m}^3$	100 $\mu\text{g}/\text{m}^3$
02	Particulate Matter (PM _{2.5})	CPCB	21.3 $\mu\text{g}/\text{m}^3$	60 $\mu\text{g}/\text{m}^3$
03	Sulphur dioxide	IS 5182 Part 2 2001 RA 2017	4.2 $\mu\text{g}/\text{m}^3$	80 $\mu\text{g}/\text{m}^3$
04	Nitrogen dioxide	IS 5182 Part 06 2006 RA2017	3.6 $\mu\text{g}/\text{m}^3$	80 $\mu\text{g}/\text{m}^3$

Note: NAAQS-National Ambient Air Quality Standards

* End of the Report*

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TEST REPORT

Page 01 of 01

Client Name & Address	Certificate No:	PL/AMB/RT/8751/2019
M/s. Southern Rock & Aggregates Mining Company Painkulam Cheruthuruthy Thrissur	Date of issue:	28/08/2019
	Date of monitoring	20/08/2019 10.00 Hrs to 21/08/2019 10.00 Hrs
	Date of sample received:	22/08/2019
	Date of analysis	22/08/2019
	Monitoring Location	M/s. Southern Rock & Aggregates Panchayath: Paanjal Village: Panikulam District: Thrissur, Kerala.
	Sample description	Ambient air – Near West side boundary
	Sample code given by client	Nil

SL NO	PARAMETERS	TEST METHOD	RESULTS	Limit as per NAAQS
01	Particulate Matter (PM ₁₀)	IS 5182 Part 23 2006 RA 2012	39.4 $\mu\text{g}/\text{m}^3$	100 $\mu\text{g}/\text{m}^3$
02	Particulate Matter (PM _{2.5})	CPCB	18.6 $\mu\text{g}/\text{m}^3$	60 $\mu\text{g}/\text{m}^3$
03	Sulphur dioxide	IS 5182 Part 2 2001 RA 2017	3.2 $\mu\text{g}/\text{m}^3$	80 $\mu\text{g}/\text{m}^3$
04	Nitrogen dioxide	IS 5182 Part 06 2006 RA2017	2.3 $\mu\text{g}/\text{m}^3$	80 $\mu\text{g}/\text{m}^3$

Note: NAAQS-National Ambient Air Quality Standards

* End of the Report*

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TEST REPORT

Page 01 of 01

Client Name & Address	Certificate No:	PL/RT/SD/8754/2019
	Date of issue:	28/08/2019
	Date of monitoring	20/08/2019 10.00 Hrs to 21/08/2019 10.00 Hrs
M/s. Southern Rock & Aggregates Mining Company Painkulam Cheruthuruthy Thrissur	Monitoring Location	M/s. Southern Rock & Aggregates Panchayath: Paanjal Village: Panikulam District: Thrissur, Kerala
	Sample Description	Ambient Sound Level (Leq)
Monitoring Location	Time	Results
East side boundary	10.00 Hrs	47.2 dB (A)
	11.00 Hrs	46.5 dB (A)
	12.00 Hrs	45.2 dB (A)
	13.00 Hrs	42.3 dB (A)
	14.00 Hrs	40.1 dB (A)
	15.00 Hrs	39.8 dB (A)
	16.00 Hrs	38.7 dB (A)
	17.00 Hrs	37.4 dB (A)
	18.00 Hrs	35.4 dB (A)
	19.00 Hrs	35.1 dB (A)
	20.00 Hrs	34.1 dB (A)
	21.00 Hrs	34.3 dB (A)
	22.00 Hrs	35.7 dB (A)
	23.00 Hrs	36.3 dB (A)
	00.00 Hrs	37.2 dB (A)
	01.00 Hrs	36.3 dB (A)
	02.00 Hrs	36.4 dB (A)
	03.00 Hrs	37.4 dB (A)
	04.00 Hrs	40.1 dB (A)
	05.00 Hrs	42.3 dB (A)
	06.00 Hrs	44.2 dB (A)
	07.00 Hrs	43.1 dB (A)
	08.00 Hrs	42.4 dB (A)
	09.00 Hrs	43.6 dB (A)
Leq (Day time)		46.8 dB (A)
Leq (Night time)		35.4 dB (A)

*End of the Report *

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Authorized Signatory



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TEST REPORT

Page 01 of 01

Client Name & Address	Certificate No:	PL/RT/SD/8755/2019
	Date of issue:	28/08/2019
	Date of monitoring	20/08/2019 10.00 Hrs to 21/08/2019 10.00 Hrs
M/s. Southern Rock & Aggregates Mining Company Painkulam Cheruthuruthy Thrissur	Monitoring Location	M/s. Southern Rock & Aggregates Panchayath: Paanjal Village: Panikulam District: Thrissur, Kerala
	Sample Description	Ambient Sound Level (Leq)
Monitoring Location	Time	Results
West side boundary	10.00 Hrs	46.3 dB (A)
	11.00 Hrs	45.3 dB (A)
	12.00 Hrs	45.2 dB (A)
	13.00 Hrs	42.3 dB (A)
	14.00 Hrs	39.8 dB (A)
	15.00 Hrs	38.7 dB (A)
	16.00 Hrs	36.3 dB (A)
	17.00 Hrs	34.2 dB (A)
	18.00 Hrs	34.7 dB (A)
	19.00 Hrs	36.3 dB (A)
	20.00 Hrs	35.2 dB (A)
	21.00 Hrs	36.3 dB (A)
	22.00 Hrs	36.3 dB (A)
	23.00 Hrs	35.2 dB (A)
	00.00 Hrs	38.6 dB (A)
	01.00 Hrs	37.4 dB (A)
	02.00 Hrs	38.2 dB (A)
	03.00 Hrs	39.4 dB (A)
	04.00 Hrs	40.1 dB (A)
	05.00 Hrs	43.6 dB (A)
	06.00 Hrs	44.6 dB (A)
	07.00 Hrs	45.2 dB (A)
	08.00 Hrs	44.1 dB (A)
	09.00 Hrs	44.2 dB (A)
Leq (Day time)		45.4 dB (A)
Leq (Night time)		35.2 dB (A)

*End of the Report *

For Poluchem Laboratories (P) Ltd.


Authorized Signatory

SREEDHAR RAMESH
Manager
Poluchem Laboratories (P) Ltd.



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TEST REPORT

Ref.No. PL/RT/OW/8753//2019

Page 01 of 02

Date of Issue: 28/08/2019

Name & address of customer

: M/s. Southern Rock & Aggregates Mining Company
Painkulam, Cheruthuruthy
Thrissur

Project Site

: M/s. Southern Rock & Aggregates
Panchayath: Paanjal
Village: Panikulam
District: Thrissur, Kerala.

Sample drawn by

: Poluchem Laboratory Sample Collector

Sample description

: Drinking Water

Location of sampling

: Bore Well Water-South east Side

Date of sample collected

: 21/08/2019

Date of analysis started

: 22/08/2019

Date of completion of analysis

: 26/08/2019

Parameters tested	Test method	Results	Acceptable Limit As Per IS 10500-2012
Color	IS 3025 (P) 04 – 1983 RA2017	10 Hazen Unit	5 Hazen Unit
Odour	IS 3025 (P) 05 – 1983 RA2017	Agreeable	Agreeable
Turbidity	IS 3025 (P) 10 – 1984 RA2017	3 NTU	1 NTU
pH	IS 3025 (P) 11 – 1983 RA 2017	6.03	6.5 – 8.5
Total Dissolved Solids	IS 3025 (P) 16 – 1984 RA2017	126 mg/l	500 mg/l
Total Hardness as CaCO ₃	IS 3025 (P) 21 – 1983 RA2014	36.8 mg/l	200 mg/l
Total Alkalinity as CaCO ₃	IS 3025 (P) 23 – 1986 RA2014	12.4 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	42.6 mg/l	250 mg/l
Calcium as Ca	IS 3025 (P) 40 – 1991 RA2014	12.4 mg/l	75 mg/l
Magnesium as Mg	IS 3025 (P) 46 – 1994 RA2014	3.2 mg/l	30 mg/l
Total Iron as Fe	IS 3025 (P) 53 – 2003 RA2014	0.57 mg/l	0.3 mg/l
Sulphate as SO ₄	IS 3025 (P) 24 – 1986 RA2009	16.5 mg/l	200 mg/l
Fluoride as F	IS 3025 (P) 60 -2008 RA 2013	0.25 mg/l	1.0 mg/l

Note : BDL – Below Detection Level

For Poluchem Laboratories (P) Ltd.

Sreejaramesh
Authorized signatory
SREEJARAMESH
Quality Manager
Poluchem Laboratories (P) Ltd



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Page 02 of 02

Continuation of Test Certificate No: 8753/2019

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 RA 2009	Absent	Absent
E coli	Present or Absent/100ml	IS 1622: 1981 RA 2009	Absent	Absent

For Poluchem Laboratories (P) Ltd.


Authorized signatory
SREEJA JAMES
Quality Manager
Poluchem Laboratories (P) Ltd.

* End of the report*

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TEST REPORT

Ref.No. PL/RT/OW/8752//2019

Page 01 of 02

Date of Issue: 28/08/2019

Name & address of customer

: M/s. Southern Rock & Aggregates Mining Company
Painkulam, Cheruthuruthy
Thrissur

Project Site

: M/s. Southern Rock & Aggregates
Panchayath: Paanjal
Village: Panikulam
District: Thrissur, Kerala.

.Sample drawn by

: Poluchem Laboratory Sample Collector

Sample description

: Drinking Water

Location of sampling

: Open Well Water-South east Side

Date of sample collected

: 21/08/2019

Date of analysis started

: 22/08/2019

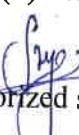
Date of completion of analysis

: 26/08/2019

Parameters tested	Test method	Results	Acceptable Limit As Per IS 10500-2012
Color	IS 3025 (P) 04 – 1983 RA2017	5 Hazen Unit	5 Hazen Unit
Odour	IS 3025 (P) 05 – 1983 RA2017	Agreeable	Agreeable
Turbidity	IS 3025 (P) 10 – 1984 RA2017	1 NTU	1 NTU
pH	IS 3025 (P) 11 – 1983 RA 2017	5.87	6.5 – 8.5
Total Dissolved Solids	IS 3025 (P) 16 – 1984 RA2017	96.6 mg/l	500 mg/l
Total Hardness as CaCO ₃	IS 3025 (P) 21 – 1983 RA2014	28.9 mg/l	200 mg/l
Total Alkalinity as CaCO ₃	IS 3025 (P) 23 – 1986 RA2014	24.6 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	32.5 mg/l	250 mg/l
Calcium as Ca	IS 3025 (P) 40 – 1991 RA2014	9.6 mg/l	75 mg/l
Magnesium as Mg	IS 3025 (P) 46 – 1994 RA2014	2.4 mg/l	30 mg/l
Total Iron as Fe	IS 3025 (P) 53 – 2003 RA2014	0.21 mg/l	0.3 mg/l
Sulphate as SO ₄	IS 3025 (P) 24 – 1986 RA2009	12.3 mg/l	200 mg/l
Fluoride as F	IS 3025 (P) 60 -2008 RA 2013	0.2 mg/l	1.0 mg/l

Note : BDL – Below Detection Level

For Poluchem Laboratories (P) Ltd.


Authorized signatory

SREEJA RAMESH
CHIEF EXECUTIVE
MANAGERIAL STAFF



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Page 02 of 02

Continuation of Test Certificate No: 8752/2019

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 RA 2009	23	Absent
E coli	Present or Absent/100ml	IS 1622: 1981 RA 2009	Absent	Absent

For Poluchem Laboratories (P) Ltd.


Authorized signatory

* End of the report*

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SREEJA RAMESH
Quality Manager

PLATES

PLATE G: 1



PLATE G: 1- Rainwater harvesting pits.

Plate G:3



Plate G: 3-Avenue trees planted along either side of tarred road.

Plate G: 5



Plate G: 5 -Sprinklers installed.

Plate G: 9



Plate G: 9 -Fencing around the boundary area.

Plate G: 15



Plate G: 15-Access Road to the Quarry

Plate G:17



Plate G: 17- Bench Height

Plate G:18



Plate G: 18-Mats are used during vibration studies

Plate G: 22



Plate G: 22-Workers with protective equipments

Plate G: 23



Plate G: 23-Garland drains.

Plate G: 24



Plate G: 24- Covered trucks.

Plate G: 25



Plate G: 25-Plantaion done.

Plate G: 38



Plate G: 38-Environmental Clearance display board